New Brunswick
Research and Development Directory 1992

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New Nouveau
Brunswick

Canada

Atlantic Canada
Opportunities Agency

92-03845/

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INTRODUCTION

The New Brunswick Research and Development Directory will serve as a useful tool for manufacturers, processors and service firms in identifying the research and development capabilities that may be contracted within New Brunswick's private and public sectors. This directory is intended to facilitate technology transfer and promote interaction between research and development facilities and New Brunswick industries. In doing so, New Brunswick industries can develop or improve their products, processes or services, and create competitive advantages while promoting cost effectiveness.

For the purpose of this directory, "applied research and development" is defined as follows:

> *Technical and/or scientific activities undertaken to generate findings that can be used to create/enhance a product, service or manufacturing process.*

Organizations within the province of New Brunswick who undertake these activities for external users are profiled. Many New Brunswick firms who conduct research and development for internal purposes only are not included in this directory, but may be found in others. Also, due to the specific scope of this directory, activities such as software customizing, business management, social science research and feasibility studies were not considered as research and development activities.

For further information, the following directories are available from the New Brunswick Department of Economic Development and Tourism. To order, call (506) 453-2965.

- New Brunswick Software Directory
- New Brunswick Directory of Metal Working Companies
- New Brunswick Wholesalers, Distributors and Agents
- New Brunswick Directory of Products and Manufacturers
- New Brunswick Directory of Technical Management and Marketing Services

HOW TO USE THE DIRECTORY

New Brunswick Research and Development Activities - Alphabetical Classification

Various research and development activities that are being conducted within the province of New Brunswick are itemized alphabetically in this section. Each activity is followed by a list of the organizations within the Province that conduct the activity. Individual profiles on each organization are available further into the directory.

New Brunswick Organizations Conducting Research and Development - Alphabetical Classification of Profiles

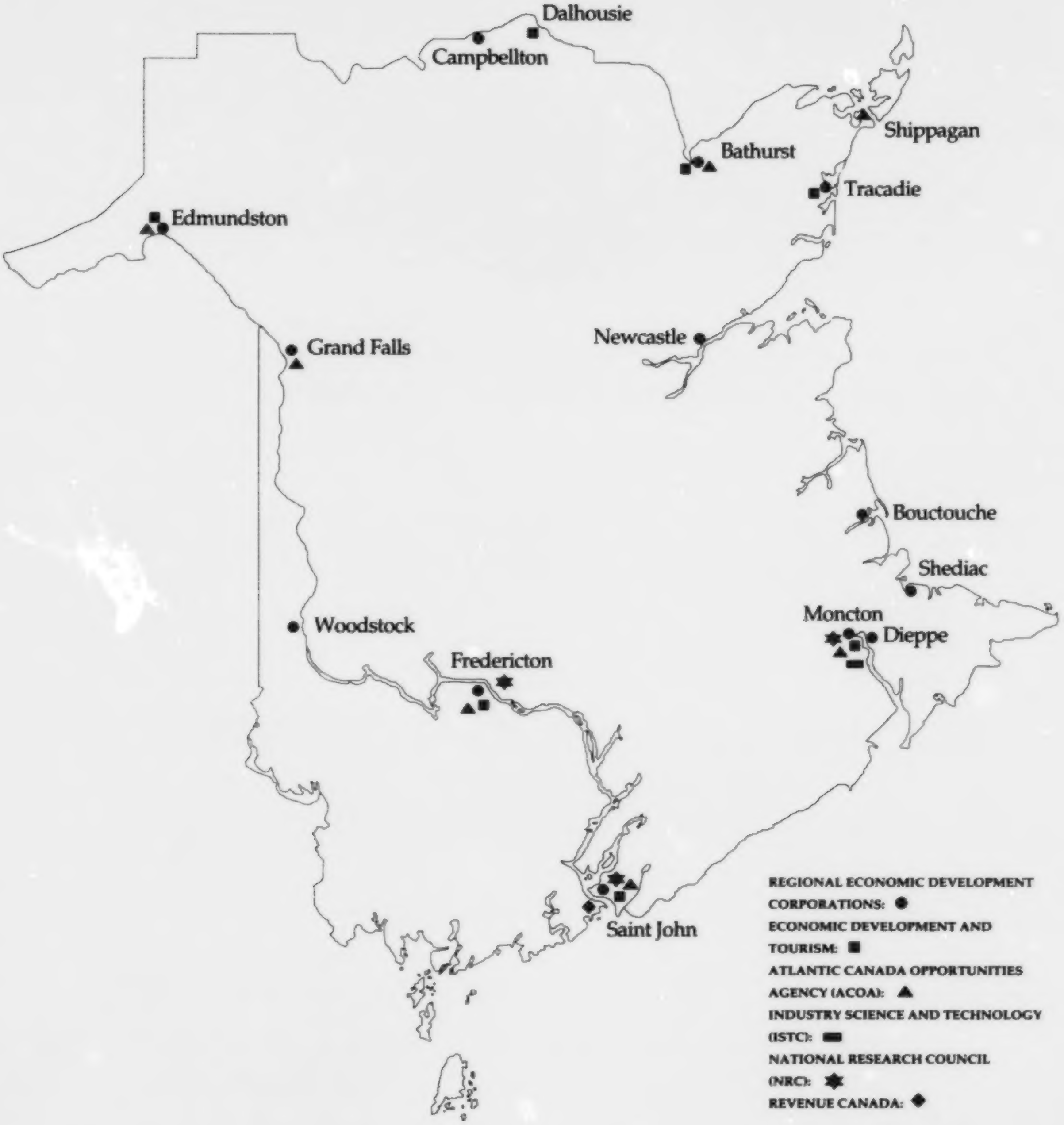
In this section, various public and private sector organizations that conduct research and development activities for external users, are listed alphabetically. Profiles for these organizations include the address, contact person, mandate of the organization, main categories of research and development activities, equipment and facilities, interaction activities with industry, affiliations, collaborative projects, composition of employees and languages of services offered.

Additional Sources of Technical Information and Funding Programs

This section indicates where additional technical information and assistance can be obtained, as well as programs and services offered to support New Brunswick research and development activities.

NEW BRUNSWICK RESEARCH AND DEVELOPMENT ACTIVITIES ALPHABETICAL CLASSIFICATION

REGIONAL OFFICES OFFERING TECHNICAL ASSISTANCE


Dalhousie
Campbellton
Shippagan
Bathurst
Tracadie
Edmundston
Newcastle
Grand Falls
Bouctouche
Shediac
Moncton
Dieppe
Woodstock
Fredericton
Saint John
REGIONAL ECONOMIC DEVELOPMENT CORPORATIONS: ●
ECONOMIC DEVELOPMENT AND TOURISM: ■
ATLANTIC CANADA OPPORTUNITIES AGENCY (ACOA): ▲
INDUSTRY SCIENCE AND TECHNOLOGY (ISTC): ▬
NATIONAL RESEARCH COUNCIL (NRC): ✸
REVENUE CANADA: ◆

NOTE: Refer to Additional Sources of Technical Information and Funding Programs

NEW BRUNSWICK RESEARCH AND DEVELOPMENT ACTIVITIES ALPHABETICAL CLASSIFICATION

Accident Investigation
Atlantic Nuclear Services Ltd.
Fiander-Good Associates Ltd.
Fire Science Centre (UNB)
Fundy Engineering and Consulting Ltd.
NB Research and Productivity Council (RPC)
Universal Systems Ltd.
University of New Brunswick

Acidification
Lizotte Consultants Ltée/Ltd.
Mount Allison University
The New Brunswick Museum
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Acoustics
Cadmi Microelectronics/ Microelectronique Inc. (UNB)
MCM Machinery Condition Monitoring Inc.
Mount Allison University
University of New Brunswick

Adsorption
Fundy Engineering and Consulting Ltd.
Université de Moncton
University of New Brunswick

Aggregate Alkali Reactivity
ADI Limited

Agricultural Engineering
Biology Department (U de M)
Fundy Engineering and Consulting Ltd.
Lizotte Consultants Ltée/Ltd.

Agriculture
Cadmi Microelectronics/ Microelectronique Inc. (UNB)
Environmental Science Research Centre (U de M)
Food Research Centre (U de M)
Lizotte Consultants Ltée/Ltd.
Mount Allison University
Peat Research and Development Centre Inc. (U de M)
SGS Supervision Services Inc.
Universal Systems Ltd.
Washburn & Gillis Associates Ltd.

Air Water Interaction
Université de Moncton
University of New Brunswick

Algae
Mount Allison University
University of New Brunswick

Anadromous Fishes
Food Research Centre (U de M)
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Shippagan Aquarium and Marine Centre
Washburn & Gillis Associates Ltd.

Analytical Chemistry
Custom Laboratories Ltd.
Environmental Science Research Centre (U de M)
Food Research Centre (U de M)
Forestry Canada - Maritime Region
Industrial Research Chair in Pulping Technology (Incutech, UNB)
Mount Allison University
NB Research and Productivity Council (RPC)
Peat Research and Development Centre Inc. (U de M)
SGS Supervision Services Inc.
Shippagan Aquarium and Marine Centre
Université de Moncton
University of New Brunswick
Wood Science and Technology Centre (UNB)

Animal Science
Fundy Engineering and Consulting Ltd.
Mount Allison University

Antenna Modelling And Design
University of New Brunswick

Antennae
University of New Brunswick

Applied Biology
Atlantic Nuclear Services Ltd.
Biology Department (U de M)
Huntsman Marine Science Centre
Mount Allison University
SGS Supervision Services Inc.
School of Forestry-Edmundston (U de M)
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.
Wood Science and Technology Centre (UNB)

Applied Mathematics
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Centre of Mathematics and Statistics (U de M)
Computer Science Department (U de M)
Engineering Department (U de M)
Manufacturing Technology Centre (UNB)
Manufacturing Technology Centre (U de M)
Mount Allison University
Research Centre for Energy Conversion (U de M)
SMA Engineering
Université de Moncton
University of New Brunswick

Applied Physics
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Manufacturing Technology Centre (U de M)
Mount Allison University
SCAT Science and Technology Inc.
SMA Engineering
Université de Moncton
University of New Brunswick

Appraisals and Investigation
A.W. Gunn Engineering
ADI Limited
Jacques Whitford Environment Limited
MCM Machinery Condition Monitoring Inc.
Omni Ventures Inc.
SCAT Science and Technology Inc.
SMA Engineering
Techmar Engineering Ltd.
Tidal Industrial Development
Universal Systems Ltd.

Aquaculture
ADI Limited
Biochemistry Group (U de M)
Cadmi Microelectronics/ Microelectronique Inc. (UNB)
Environmental Science Research Centre (U de M)
Fiander-Good Associates Ltd.
Food Research Centre (U de M)
Fundy Engineering and Consulting Ltd.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Manufacturing Technology Centre (UNB)
Mount Allison University
NB Research and Productivity Council (RPC)
Peat Research and Development Centre Inc. (U de M)
SGS Supervision Services Inc.
Shippagan Aquarium and Marine Centre
Tidal Industrial Development
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Aquatic Sciences
Biology Department (U de M)
Fundy Engineering and Consulting Ltd.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
Shippagan Aquarium and Marine Centre
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Artificial Intelligence
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Computer Science Department (U de M)
Lizotte Consultants Ltée/Ltd.
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (UNB)
Mount Allison University
NB Research and Productivity Council (RPC)
Predictive Maintenance Expert Systems Co.
Research Centre for Energy Conversion (U de M)
SMA Engineering
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Astronomy
Mount Allison University

Astrophysics
Mount Allison University

Atomic & Molecular Physics
Biron Engineering Ltd.
SGS Supervision Services Inc.
University of New Brunswick

Bacteria
Environmental Science Research Centre (U de M)
Food Research Centre (U de M)
NB Research and Productivity Council (RPC)
Peat Research and Development Centre Inc. (U de M)
SGS Supervision Services Inc.
Shippagan Aquarium and Marine Centre
Université de Moncton

Bathymetry
Geocon (1991) Inc.
Universal Systems Ltd.
University of New Brunswick

Benthic Ecology
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
The New Brunswick Museum
University of New Brunswick
Washburn & Gillis Associates Ltd.

Benthos
Huntsman Marine Science Centre
Jacques Whitform Environment Limited
University of New Brunswick
Washburn & Gillis Associates Ltd.

Bio-Engineering
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/ Microelectronique Inc. (UNB)
Fundy Engineering and Consulting Ltd.
Huntsman Marine Science Centre
Institute of Biomedical Engineering (UNB)
University of New Brunswick

Biochemistry
Biochemistry Group (U de M)
Environmental Science Research Centre (U de M)
Food Research Centre (U de M)
Forestry Canada - Maritime Region
Huntsman Marine Science Centre
Mount Allison University
NB Research and Productivity Council (RPC)
Peat Research and Development Centre Inc. (U de M)
Shippagan Aquarium and Marine Centre
University of New Brunswick
Wood Science and Technology Centre (UNB)

Biological Limnology
Environmental Science Research Centre (U de M)
Fundy Engineering and Consulting Ltd.
Huntsman Marine Science Centre
Mount Allison University

Biological Oceanography
Fundy Engineering and Consulting Ltd.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
The New Brunswick Museum
Universal Systems Ltd.

Biology
Biochemistry Group (U de M)
Environmental Science Research Centre (U de M)
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
Research Laboratory for Industry and the Environment (U de M)
SGS Supervision Services Inc.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Biomechanics
Engineering Department (U de M)
Institute of Biomedical Engineering (UNB)

Biomedical Engineering
Atlantic Nuclear Services Ltd.
Institute of Biomedical Engineering (UNB)
Manufacturing Technology Centre (UNB)
University of New Brunswick

Biometry
Huntsman Marine Science Centre
School of Forestry-Edmundston (U de M)

Biophysics
Atlantic Nuclear Services Ltd.
Mount Allison University

Biostatistics
Environmental Science Research Centre (U de M)
Huntsman Marine Science Centre
Institute of Biomedical Engineering (UNB)

Biotechnology
Biochemistry Group (U de M)
Environmental Science Research Centre (U de M)
Forestry Canada - Maritime Region
Ionizing Energy Company of Canada Limited
Mount Allison University
NB Research and Productivity Council (RPC)
Université de Moncton
University of New Brunswick
Wood Science and Technology Centre (UNB)

Botany
Environmental Science Research Centre (U de M)
Jacques Whitford Environment Limited
Mount Allison University
The New Brunswick Museum
Peat Research and Development Centre (U de M)
University of New Brunswick

Cadastral Systems
Rockwood Informatics Corp.
Universal Systems Ltd.
University of New Brunswick

Catalysis

University of New Brunswick

Chemical Education

Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Mount Allison University
Université de Moncton
University of New Brunswick

Chemical Engineering

ADI Limited
Atlantic Nuclear Services Ltd.
Fire Science Centre (UNB)
Industrial Research Chair in Pulping Technology (Incutech, UNB)
Mount Allison University
NB Research and Productivity Council (RPC)
University of New Brunswick

Chemical Limnology

Environmental Science Research Centre (U de M)

Chemistry

ADI Limited
Atlantic Microbiology Ltd.
Environmental Science Research Centre (U de M)
Fire Science Centre (UNB)
Forestry Canada - Maritime Region
Industrial Research Chair in Pulping Technology (Incutech, UNB)
Mount Allison University
NB Research and Productivity Council (RPC)
Peat Research and Development Centre Inc. (U de M)
SGS Supervision Services Inc.
University de Moncton
University of New Brunswick

Civil Engineering

ADI Limited
Atlantic Nuclear Services Ltd.
Environmental Science Research Centre (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
Fiander-Good Associates Ltd.
Fire Science Centre (UNB)
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geoplan Consultants Inc.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Manufacturing Technology Centre (U de M)
Neill and Gunter Limited
SMA Engineering
Tidal Industrial Development
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.
Wood Science and Technology Centre (UNB)

Coastal/Near Shore Processes

ADI Limited
FENCO Shawinigan Engineering (1991) Ltd.
Huntsman Marine Science Centre
Mount Allison University
SMA Engineering
Universal Systems Ltd.
University of New Brunswick

Coastal Oceanography

Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Omni Ventures Inc.
Tidal Industrial Development
Universal Systems Ltd.
University of New Brunswick

Coding Theory

Advanced Systems Design Ltd.
Engineering Department (U de M)
Universal Systems Ltd.
Université de Moncton

Collision Investigation

University of New Brunswick

Combustion

Atlantic Nuclear Services Ltd.
Fire Science Centre (UNB)
NB Research and Productivity Council (RPC)
Neill and Gunter Limited
Université de Moncton
University of New Brunswick

Combustion Engineering

ADI Limited
Atlantic Nuclear Services Ltd.
Fire Science Centre (UNB)
NB Research and Productivity Council (RPC)
Neill and Gunter Limited
University of New Brunswick

Composting

Research Laboratory for Industry and the Environment (U de M)
Washburn & Gillis Associates Ltd.

Computer Aided Design

A.W. Gunn Engineering
ADI Limited
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Cadmi Microelectronics/ Microelectronique Inc. (UNB)
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
Fiander-Good Associates Ltd.
Fire Science Centre (UNB)
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Institute of Biomedical Engineering (UNB)
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (Mt. A University)
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
Mount Allison University
NB Research and Productivity Council (RPC)
Neill and Gunter Limited
SMA Engineering
Techmar Engineering Ltd.
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Computer Applications

A.W. Gunn Engineering
ADI Limited
Advanced Systems Design Ltd.
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Cadmi Microelectronics/ Microelectronique Inc. (UNB)
Computer Science Department (U de M)
DMR Group Inc.
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fiander-Good Associates Ltd.
Fire Science Centre (UNB)
Food Research Centre (U de M)
Force/Robak Associates Ltd.
Gemtec Limited
Geoplan Consultants Inc.
Huntsman Marine Science Centre
Institute of Biomedical Engineering (UNB)
Lizotte Consultants Ltée/Ltd.
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (Mt. A University)
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)

Mount Allison University
NB Research and Productivity Council (RPC)
NCA Microelectronics Inc.
Omni Ventures Inc.
Predictive Maintenance Expert Systems Co.
REMS Research Ltd.
Rockwood Informatics Corp.
SMA Engineering
School of Forestry-Edmundston (U de M)
Techmar Engineering Ltd.
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Computer Assisted Learning

Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Cadmi Microelectronics/ Microelectronique Inc. (UNB)
Centre of Mathematics and Statistics (U de M)
Computer Science Department (U de M)
E^3 Inc. (Electronically Enhanced Education)
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fire Science Centre (UNB)
Lizotte Consultants Ltée/Ltd.
Manufacturing Technology Centre (Mt. A University)
Manufacturing Technology Centre (UNB)
Mount Allison University
Omni Ventures Inc.
REMS Research Ltd.
Rockwood Informatics Corp.
Université de Moncton
University of New Brunswick

Computer Graphics

A.W. Gunn Engineering
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Cadmi Microelectronics/ Microelectronique Inc.(UNB)
Computer Science Department (U de M)
Engineering Department (U de M)
Fire Science Centre (UNB)
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Manufacturing Technology Centre (Mt. A University)
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
Mount Allison University
Neill and Gunter Limited
Omni Ventures Inc.
REMS Research Ltd.
SMA Engineering
Techmar Engineering Ltd.
Universal Systems Ltd.
University of New Brunswick

Computer Hardware Engineering

Advanced Systems Design Ltd.
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/ Microelectronique Inc. (U de M)
Cadmi Microelectronics/ Microelectronique Inc. (UNB)
Institute of Biomedical Engineering (UNB)
Lizotte Consultants Ltée/Ltd.
Manufacturing Technology Centre (U de M)
NCA Microelectronics Inc.
Omni Ventures Inc.
University of New Brunswick

Computer Mapping

Cadmi Microelectronics/ Microelectronique Inc. (U de M)
Forestry Canada - Maritime Region
Geocon (1991) Inc.
Geoplan Consultants Inc.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Northeast Exploration Services Ltd.
Omni Ventures Inc.
REMS Research Ltd.
SMA Engineering
School of Forestry-Edmundston (U de M)
Universal Systems Ltd.
University of New Brunswick
Washburn & Gillis Associates Ltd.

Computer Modelling and Simulation

ADI Limited
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Cadmi Microelectronics/ Microelectronique Inc. (UNB)
Centre of Mathematics and Statistics (U de M)
Computer Science Department (U de M)
Environmental Science Research (U de M)
Fire Science Centre (UNB)
Force/Robak Associates Ltd.
Forestry Canada - Maritime Region
Gemtec Limited
Huntsman Marine Science Centre
Institute of Biomedical Engineering (UNB)
Jacques Whitford Environment Limited
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
Mount Allison University
REMS Research Ltd.
Research Centre for Energy Conversion (U de M)
SMA Engineering
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Computer Science

Advanced Systems Design Ltd.
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Computer Science Department (U de M)
Engineering Department (U de M)
Lizotte Consultants Ltée/Ltd.
Manufacturing Technology Centre (U de M)
Mount Allison University
Omni Ventures Inc.
University of New Brunswick

Computer Software Development

A.W. Gunn Engineering
ADI Limited
Advanced Systems Design Ltd.
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Cadmi Microelectronics/ Microelectronique Inc. (UNB)
Computer Science Department (U de M)
Computing Resources
DMR Group Inc.
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fire Science Centre (UNB)
Geoplan Consultants Inc.
Institute of Biomedical Engineering (UNB)
Lizotte Consultants Ltée/Ltd.
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
Mount Allison University
NCA Microelectronics Inc.
Neill and Gunter Limited
Omni Ventures Inc.
REMS Research Ltd.
Rockwood Informatics Corp.
SMA Engineering
Universal Systems Ltd.

Université de Moncton
University of New Brunswick

Computer Software Engineering
ADI Limited
Advanced Systems Design Ltd.
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Cadmi Microelectronics/ Microelectronique Inc. (UNB)
DMR Group Inc.
Lizotte Consultants Ltée/Ltd.
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
Mount Allison University
Neill and Gunter Limited
Omni Ventures Inc.
Predictive Maintenance Expert Systems Co.
Rockwood Informatics Corp.
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Concrete Structures
ADI Limited
FENCO Shawinigan Engineering (1991) Ltd.
Geocon (1991) Inc.
Jacques Whitford Environment Limited
Neill and Gunter Limited
SMA Engineering
Université de Moncton
University of New Brunswick

Construction Eng. and Management
A.W. Gunn Engineering
ADI Limited
Biron Engineering Ltd.
FENCO Shawinigan Engineering (1991) Ltd.
Fundy Engineering and Consulting Ltd.
Geocon (1991) Inc.
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Neill and Gunter Limited
SMA Engineering
Techmar Engineering Ltd.
Tidal Industrial Development
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Construction Supervision & Contract Administration
A.W. Gunn Engineering
ADI Limited
Biron Engineering Ltd.
Engineering Department (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
Fundy Engineering and Consulting Ltd.
Geocon (1991) Inc.
Ionizing Energy Company of Canada Limited
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Neill and Gunter Limited
SMA Engineering
Techmar Engineering Ltd.
Tidal Industrial Development
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Control Systems
A.W. Gunn Engineering
ADI Limited
Advanced Systems Design Ltd.
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Cadmi Microelectronics/ Microelectronique Inc. (UNB)
Engineering Department (U de M)
Food Research Centre (U de M)
Ionizing Energy Company of Canada Limited
Manufacturing Technology Centre (UNB)
Mount Allison University
NB Research and Productivity Council (RPC)
NCA Microelectronics Inc.
Omni Ventures Inc.
Predictive Maintenance Expert Systems Co.
Techmar Engineering Ltd.
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Corrosion
NB Research and Productivity Council (RPC)
Tidal Industrial Development
University of New Brunswick

Cosmology
Fundy Engineering and Consulting Ltd.

Crustaceans
Biochemistry Group (U de M)
Environmental Science Research Centre (U de M)
Food Research Centre (U de M)
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
SGS Supervision Services Inc.
Shippagan Aquarium and Marine Centre
Université de Moncton
University of New Brunswick

Data Analysis
ADI Limited
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/ Microelectronique Inc. (UNB)
Computer Science Department (U de M)
Computing Resources
Environmental Science Research Centre (U de M)
Fiander-Good Associates Ltd.
Fire Science Centre (UNB)
Food Research Centre (U de M)
Forestry Canada - Maritime Region
Gemtec Limited
Geoplan Consultants Inc.
Huntsman Marine Science Centre
Institute of Biomedical Engineering (UNB)
Jacques Whitford Enviroment Limited
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (UNB)
Mount Allison University
Northeast Exploration Services Ltd.
Omni Ventures Inc.
SMA Engineering
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Decision Support Systems
Atlantic Nuclear Services Ltd.
Computing Resources
Engineering Department (U de M)
Fiander-Good Associates Ltd.
Force/Robak Associates Ltd.
Forestry Canada - Maritime Region
Omni Ventures Inc.
Predictive Maintenance Expert Systems Co.
REMS Research Ltd.
Rockwood Informatics Corp.
SMA Engineering
Universal Systems Ltd.
Université de Moncton

Descriptive Oceanography
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Universal Systems Ltd.
University of New Brunswick

Developmental Bio. & Ultrastructure
Huntsman Marine Science Centre
Mount Allison University

Digital Systems
Advanced Systems Design Ltd.

Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Cadmi Microelectronics/
Microelectronique Inc.(U de M)
Cadmi Microelectronics/
Microelectronique Inc. (UNB)
Institute of Biomedical Engineering (UNB)
Manufacturing Technology Centre (U de M)
Mount Allison University
NCA Microelectronics Inc.
Omni Ventures Inc.
Predictive Maintenance Expert Systems Co.
Universal Systems Ltd.
University of New Brunswick

Diseases and Parasites

Forestry Canada - Maritime Region
Huntsman Marine Science Centre
Mount Allison University
NB Research and Productivity Council (RPC)
The New Brunswick Museum
Université de Moncton
University of New Brunswick

Ecology

Biology Department (U de M)
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
NB Research and Productivity Council (RPC)
The New Brunswick Museum
REMS Research Ltd.
Research Laboratory for Industry and the Environment (U de M)
SCAT Science and Technology Inc.
School of Forestry-Edmundston (U de M)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Economic Geology

NB Research and Productivity Council (RPC)
The New Brunswick Museum
Northeast Exploration Services Ltd.
Universal Systems Ltd.
University of New Brunswick

Economics

ADI Limited
Engineering Department (U de M)
Fiander-Good Associates Ltd.
Forestry Canada - Maritime Region
Geoplan Consultants Inc.
Jacques Whitford Environment Limited
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Electrical Engineering

A.W. Gunn Engineering
ADI Limited
Biron Engineering Ltd.
Cadmi Microelectronics/
Microelectronique Inc.(U de M)
Cadmi Microelectronics/
Microelectronique Inc. (UNB)
Fire Science Centre (UNB)
Institute of Biomedical Engineering (UNB)
MCM Machinery Condition Monitoring Inc.
NB Research and Productivity Council (RPC)
Neill and Gunter Limited
Techmar Engineering Ltd.
University of New Brunswick

Electrochemistry

Environmental Science Research Centre (U de M)
NB Research and Productivity Council (RPC)
Research Laboratory for Industry and the Environment (U de M)
University of New Brunswick

Energy

A.W. Gunn Engineering
ADI Limited
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/
Microelectronique Inc. (UNB)
Engineering Department (U de M)
Fiander-Good Associates Ltd.
Fire Science Centre (UNB)
Lizotte Consultants Ltée/Ltd.
NB Research and Productivity Council (RPC)
Neill and Gunter Limited
Research Centre for Energy Conversion (U de M)
SCAT Science and Technology Inc.
SMA Engineering
Techmar Engineering Ltd.
Thin Films and Solar Energy Research Group (U de M)
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Energy Conversion

ADI Limited
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/
Microelectronique Inc. (UNB)
Fiander-Good Associates Ltd.
Fire Science Centre (UNB)
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
NB Research and Productivity Council (RPC)
Research Centre for Energy Conversion (U de M)
SCAT Science and Technology Inc.
SMA Engineering
Techmar Engineering Ltd.
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Energy Conservation

A.W. Gunn Engineering
ADI Limited
Cadmi Microelectronics/
Microelectronique Inc. (UNB)
Engineering Department (U de M)
Fiander-Good Associates Ltd.
Fire Science Centre (UNB)
Neill and Gunter Limited
Research Centre for Energy Conversion (U de M)
SCAT Science and Technology Inc.
SMA Engineering
Techmar Engineering Ltd.
Tidal Industrial Development
University of New Brunswick

Engineered Wood Products

Neill and Gunter Limited
University of New Brunswick
Wood Science and Technology Centre (UNB)

Engineering Geology

Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geocon (1991) Inc.
Universal Systems Ltd.
University of New Brunswick

Engineering Techniques

A.W. Gunn Engineering
ADI Limited
Biron Engineering Ltd.
Engineering Department (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
Fiander-Good Associates Ltd.
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (UNB)
Mount Allison University
Neill and Gunter Limited
Tidal Industrial Development
Université de Moncton

Entomology

Biology Department (U de M)

Forestry Canada - Maritime Region
Huntsman Marine Science Centre
Mount Allison University
NB Research and Productivity Council (RPC)
School of Forestry-Edmundston (U de M)
Université de Moncton
University of New Brunswick

Environmental Biology

Atlantic Nuclear Services Ltd.
Biology Department (U de M)
Environmental Science Research Centre (U de M)
Forestry Canada - Maritime Region
Fundy Engineering and Consulting Ltd.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
NB Research and Productivity Council (RPC)
Peat Research and Development Centre (U de M)
SGS Supervision Services Inc.
Shippagan Aquarium and Marine Centre
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.
Wood Science and Technology Centre (UNB)

Environmental Chemistry

ADI Limited
Atlantic Microbiology Ltd.
Atlantic Nuclear Services Ltd.
Custom Laboratories Ltd.
Environmental Science Research Centre (U de M)
Mount Allison University
NB Research and Productivity Council (RPC)
Peat Research and Development Centre (U de M)
Research Laboratory for Industry and the Environment (U de M)
SGS Supervision Services Inc.
Université de Moncton

Environmental Engineering

A.W. Gunn Engineering
ADI Limited
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Cadmi Microelectronics/Microelectronique Inc. (UNB)
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fire Science Centre (UNB)
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
NB Research and Productivity Council (RPC)
Research Centre for Energy Conversion (U de M)
SCAT Science and Technology Inc.
SMA Engineering
Tidal Industrial Development
Universal Systems Ltd.
Université de Moncton
Washburn & Gillis Associates Ltd.

Environmental Geology

ADI Limited
Atlantic Microbiology Ltd.
Engineering Department (U de M)
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geocon (1991) Inc.
The New Brunswick Museum
Northeast Exploration Services Ltd.
Universal Systems Ltd.
Université de Moncton

Environmental Planning

ADI Limited
Atlantic Nuclear Services Ltd.
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Northeast Exploration Services Ltd.
REMS Research Ltd.
Research Laboratory for Industry and the Environment (U de M)
SMA Engineering
Tidal Industrial Development
Universal Systems Ltd.
Université de Moncton
Washburn & Gillis Associates Ltd.

Environmental Quality

ADI Limited
Atlantic Microbiology Ltd.
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Gemtec Limited
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Mount Allison University
Peat Research and Development Centre Inc. (U de M)
Research Centre for Energy Conversion (U de M)
Research Laboratory for Industry and the Environment (U de M)
SGS Supervision Services Inc.
Université de Moncton
Washburn & Gillis Associates Ltd.

Environmental Sciences

ADI Limited
Atlantic Microbiology Ltd.
Atlantic Nuclear Services Ltd.
Biochemistry Group (U de M)
Biology Department (U de M)
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fire Science Centre (UNB)
Forestry Canada - Maritime Region
Gemtec Limited
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Mount Allison University
The New Brunswick Museum
Peat Research and Development Centre Inc. (U de M)
REMS Research Ltd.
Research Laboratory for Industry and the Environment (U de M)
SGS Supervision Services Inc.
Tidal Industrial Development
Université de Moncton
Washburn & Gillis Associates Ltd.

Environmental Studies

ADI Limited
Atlantic Microbiology Ltd.
Atlantic Nuclear Services Ltd.
Environmental Science Research Centre (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
Forestry Canada - Maritime Region
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Mount Allison University
NB Research and Productivity Council (RPC)
Northeast Exploration Services Ltd.
Research Centre for Energy Conversion (U de M)
Research Laboratory for Industry and the Environment (U de M)
SCAT Science and Technology Inc.
SGS Supervision Services Inc.
SMA Engineering
Shippagan Aquarium and Marine Centre
Tidal Industrial Development
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.
Wood Science and Technology Centre (UNB)

Erosion Processes

Engineering Department (U de M)
Gemtec Limited
Huntsman Marine Science Centre

Lizotte Consultants Ltée/Ltd.
Northeast Exploration Services Ltd.
School of Forestry-Edmundston (U de M)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.
Wood Science and Technology Centre (UNB)

Estuarine Ecology

Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
Research Laboratory for Industry and the Environment (U de M)
Shippagan Aquarium and Marine Centre
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Evaluation Research

Cadmi Microelectronics/Microelectronique Inc.(U de M)
Biology Department (U de M)
Environmental Science Research Centre (U de M)
Fiander-Good Associates Ltd.
Geoplan Consultants Inc.
Jacques Whitford Environment Limited
REMS Research Ltd.
Rockwood Informatics Corp.
Universal Systems Ltd.
Université de Moncton
Wood Science and Technology Centre (UNB)

Expert Systems

Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Cadmi Microelectronics/Microelectronique Inc.(U de M)
E^3 Inc. (Electronically Enhanced Education)
Engineering Department (U de M)
Lizotte Consultants Ltée/Ltd.
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
Predictive Maintenance Expert Systems Co.
REMS Research Ltd.
Research Centre for Energy Conversion (U de M)
Rockwood Informatics Corp.
SMA Engineering
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Fibre Optics

Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/Microelectronique Inc.(UNB)
Engineering Department (U de M)
Fire Science Centre (UNB)
NB Research and Productivity Council (RPC)
NCA Microelectronics Inc.
Thin Films and Solar Energy Research Group (U de M)
University of New Brunswick

Fire Protection

Fire Science Centre (UNB)
Professional Loss Control Ltd.
REMS Research Ltd.
Tidal Industrial Development
University of New Brunswick

Fire Science

Fire Science Centre (UNB)
Professional Loss Control Ltd.
REMS Research Ltd.
University of New Brunswick

Fish Behavior

Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
NB Research and Productivity Council (RPC)
Shippagan Aquarium and Marine Centre
Université de Moncton
University of New Brunswick

Fish Disease and Parasites

Biology Department (U de M)
Huntsman Marine Science Centre
NB Research and Productivity Council (RPC)
Shippagan Aquarium and Marine Centre
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Fish Habitat

Environmental Science Research Centre (U de M)
Fundy Engineering and Consulting Ltd.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
Shippagan Aquarium and Marine Centre
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Fish Population Studies

Biochemistry Group (U de M)
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
Shippagan Aquarium and Marine Centre
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Fish Stock Analysis

Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Northeast Exploration Services Ltd.
Shippagan Aquarium and Marine Centre
Universal Systems Ltd.
University of New Brunswick
Washburn & Gillis Associates Ltd.

Fisheries Assessment

Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
Shippagan Aquarium and Marine Centre
Universal Systems Ltd.
Université de Moncton
Washburn & Gillis Associates Ltd.

Fisheries Engineering

Fundy Engineering and Consulting Ltd.
Huntsman Marine Science Centre
Tidal Industrial Development

Fisheries Oceanography

Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Shippagan Aquarium and Marine Centre
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Floating Platforms

Huntsman Marine Science Centre
Manufacturing Technology Centre (UNB)
Tidal Industrial Development

Fluid Dynamics

Atlantic Nuclear Services Ltd.
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fire Science Centre (UNB)
Manufacturing Technology Centre (U de M)
Mount Allison University
SMA Engineering
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Fluid Transfer Process

Atlantic Nuclear Services Ltd.

Engineering Department (U de M)
Fire Science Centre (UNB)
Manufacturing Technology Centre (U de M)
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Food Science And Technology
Atlantic Microbiology Ltd.
Food Research Centre (U de M)
Ionizing Energy Company of Canada Limited
NB Research and Productivity Council (RPC)
SCAT Science and Technology Inc.
SGS Supervision Services Inc.

Forest Engineering
Engineering Department (U de M)
Force/Robak Associates Ltd.
Neill and Gunter Limited
Universal Systems Ltd.
University of New Brunswick
Wood Science and Technology Centre (UNB)

Forest Management
Fiander-Good Associates Ltd.
Force/Robak Associates Ltd.
Forestry Canada - Maritime Region
Jacques Whitford Environment Limited
REMS Research Ltd.
Universal Systems Ltd.
University of New Brunswick
Wood Science and Technology Centre (UNB)

Forest Operations Administration
Fiander-Good Associates Ltd.
Force/Robak Associates Ltd.
Neill and Gunter Limited
School of Forestry-Edmundston (U de M)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Wood Science and Technology Centre (UNB)

Forest Operations Research
Fiander-Good Associates Ltd.
Force/Robak Associates Ltd.
Forestry Canada - Maritime Region
Jacques Whitford Environment Limited
Manufacturing Technology Centre (UNB)
Mount Allison University
REMS Research Ltd.
School of Forestry-Edmundston (U de M)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Wood Science and Technology Centre (UNB)

Forest Roads
Fiander-Good Associates Ltd.
Gemtec Limited
Geocon (1991) Inc.
SMA Engineering
Universal Systems Ltd.
University of New Brunswick
Wood Science and Technology Centre (UNB)

Forestry
Fiander-Good Associates Ltd.
Force/Robak Associates Ltd.
Forestry Canada - Maritime Region
Jacques Whitford Environment Limited
Mount Allison University
NB Research and Productivity Council (RPC)
REMS Research Ltd.
School of Forestry-Edmundston (U de M)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Wood Science and Technology Centre (UNB)

Freshwater Fishes
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Functional Analysis
ADI Limited
DMR Group Inc.
E^3 Inc. (Electronically Enhanced Education)
Lizotte Consultants Ltée/Ltd.
Manufacturing Technology Centre (U de M)
Mount Allison University

Gas Transmission
Fire Science Centre (UNB)
Universal Systems Ltd.
Washburn & Gillis Associates Ltd.

Genetics
Biochemistry Group (U de M)
Environmental Science Research Centre (U de M)
Forestry Canada - Maritime Region
Huntsman Marine Science Centre
University of New Brunswick

Geoarchaeology
Atlantic Microbiology Ltd.

Geo-Techniques
Fundy Engineering and Consulting Ltd.
Geocon (1991) Inc.
Universal Systems Ltd.

Geochemistry
Atlantic Microbiology Ltd.
Custom Laboratories Ltd.
Environmental Science Research Centre (U de M)
Mount Allison University
Northeast Exploration Services Ltd.
Research Laboratory for Industry and the Environment (U de M)
SGS Supervision Services Inc.

Geodesy
Engineering Department (U de M)
Universal Systems Ltd.
University of New Brunswick

Geographical Info Systems
ADI Limited
DMR Group Inc.
Engineering Department (U de M)
Fiander-Good Associates Ltd.
Forestry Canada - Maritime Region
Geoplan Consultants Inc.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Northeast Exploration Services Ltd.
Omni Ventures Inc.
REMS Research Ltd.
SMA Engineering
School of Forestry-Edmundston (U de M)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Geography
Atlantic Microbiology Ltd.
Jacques Whitford Environment Limited
Universal Systems Ltd.
Université de Moncton

Geological Mining
Fundy Engineering and Consulting Ltd.
Geocon (1991) Inc.
Jacques Whitford Environment Limited
Mount Allison University
SCAT Science and Technology Inc.
Universal Systems Ltd.
University of New Brunswick

Geology
Atlantic Microbiology Ltd.
Engineering Department (U de M)
Fundy Engineering and Consulting Ltd.

Geocon (1991) Inc.
Jacques Whitford Environment Limited
Mount Allison University
NB Research and Productivity Council (RPC)
The New Brunswick Museum
Northeast Exploration Services Ltd.
Omni Ventures Inc.
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Geomagnetism

Universal Systems Ltd.

Geophysics

Northeast Exploration Services Ltd.
Universal Systems Ltd.

Geostatistics

Engineering Department (U de M)
Omni Ventures Inc.
Universal Systems Ltd.

Geotechnical Engineering

ADI Limited
Engineering Department (U de M)
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geocon (1991) Inc.
Jacques Whitford Environment Limited
Universal Systems Ltd.
University of New Brunswick
Washburn & Gillis Associates Ltd.

Geotechnical Foundations

ADI Limited
Engineering Department (U de M)
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geocon (1991) Inc.
Jacques Whitford Environment Limited
SMA Engineering
University of New Brunswick

Geotectonics

Engineering Department (U de M)
Fundy Engineering and Consulting Ltd.
Geocon (1991) Inc.
University of New Brunswick

Geotecnics

Engineering Department (U de M)
Geocon (1991) Inc.

Gerontology

Université de Moncton

Glacier Geology

Universal Systems Ltd.

Ground Water Studies

A.W. Gunn Engineering
ADI Limited
Centre of Mathematics and Statistics (U de M)
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geocon (1991) Inc.
Jacques Whitford Environment Limited
Mount Allison University
SGS Supervision Services Inc.
SMA Engineering
Universal Systems Ltd.
University of New Brunswick
Washburn & Gillis Associates Ltd.

Heat Transfer

Atlantic Nuclear Services Ltd.
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fire Science Centre (UNB)
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
SMA Engineering
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Heavy Metal Pollution

ADI Limited
Atlantic Nuclear Services Ltd.
Environmental Science Research Centre (U de M)
Jacques Whitford Environment Limited
NB Research and Productivity Council (RPC)
Research Laboratory for Industry and the Environment (U de M)
Université de Moncton
Washburn & Gillis Associates Ltd.

Highway Construction

ADI Limited
Engineering Department (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
Fiander-Good Associates Ltd.
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Lizotte Consultants Ltée/Ltd.
Neill and Gunter Limited
SMA Engineering
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Highway Design

ADI Limited
FENCO Shawinigan Engineering (1991) Ltd.
Fiander-Good Associates Ltd.
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geoplan Consultants Inc.
Lizotte Consultants Ltée/Ltd.
Neill and Gunter Limited
SMA Engineering
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Highway Safety

ADI Limited
Engineering Department (U de M)
Fiander-Good Associates Ltd.
Fire Science Centre (UNB)
Jacques Whitford Environment Limited
SMA Engineering
Universal Systems Ltd.
University of New Brunswick

Histology

Biology Department (U de M)
Huntsman Marine Science Centre

Human Performance

Institute of Biomedical Engineering (UNB)
Mount Allison University
Université de Moncton
University of New Brunswick

Hydraulic Engineering

ADI Limited
Atlantic Nuclear Services Ltd.
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fire Science Centre (UNB)
Gemtec Limited
Lizotte Consultants Ltée/Ltd.
SMA Engineering
University of New Brunswick
Washburn & Gillis Associates Ltd.

Hydraulics

ADI Limited
Atlantic Nuclear Services Ltd.
Fire Science Centre (UNB)
Gemtec Limited
Huntsman Marine Science Centre
SMA Engineering
University of New Brunswick
Washburn & Gillis Associates Ltd.

Hydrocarbon Pollution

ADI Limited
Environmental Science Research Centre (U de M)
Fire Science Centre (UNB)
Jacques Whitford Environment Limited

Peat Research and Development Centre Inc. (U de M)
Research Laboratory for Industry and the Environment (U de M)
SGS Supervision Services Inc.
Université de Moncton
Washburn & Gillis Associates Ltd.

Hydrodynamics

ADI Limited
Atlantic Nuclear Services Ltd.
Environmental Science Research Centre (U de M)
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Université de Moncton
Washburn & Gillis Associates Ltd.

Hydrogeology

ADI Limited
Engineering Department (U de M)
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geocon (1991) Inc.
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Université de Moncton
Washburn & Gillis Associates Ltd.

Hydrography

Engineering Department (U de M)
School of Forestry-Edmundston (U de M)
Universal Systems Ltd.
Université de Moncton

Hydrology

Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geocon (1991) Inc.
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
SMA Engineering
School of Forestry-Edmundston (U de M)
University of New Brunswick
Washburn & Gillis Associates Ltd.

Ice Science & Engineering

Gemtec Limited
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Universal Systems Ltd.

Ichthyoplankton

Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
University of New Brunswick

Image Analysis

Advanced Systems Design Ltd.
Atlantic Nuclear Services Ltd.
Computer Science Department (U de M)
E^3 Inc. (Electronically Enhanced Education)
Fire Science Centre (UNB)
Huntsman Marine Science Centre
NB Research and Productivity Council (RPC)
Predictive Maintenance Expert Systems Co.
Rockwood Informatics Corp.
Universal Systems Ltd.
University of New Brunswick

Image Processing

Advanced Systems Design Ltd.
Computer Science Department (U de M)
E^3 Inc. (Electronically Enhanced Education)
Engineering Department (U de M)
Fire Science Centre (UNB)
Manufacturing Technology Centre (UNB)
Northeast Exploration Services Ltd.
Omni Ventures Inc.
Predictive Maintenance Expert Systems Co.
School of Forestry-Edmundston (U de M)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Impact Assessment

ADI Limited
DMR Group Inc.
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Forestry Canada - Maritime Region
Geocon (1991) Inc.
Geoplan Consultants Inc.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Manufacturing Technology Centre (U de M)
Northeast Exploration Services Ltd.
Peat Research and Development Centre Inc. (U de M)
REMS Research Ltd.
Research Laboratory for Industry and the Environment (U de M)
Universal Systems Ltd.
Washburn & Gillis Associates Ltd.

Industrial Chemistry

ADI Limited
Atlantic Microbiology Ltd.
Atlantic Nuclear Services Ltd.
Environmental Science Research Centre (U de M)
Fire Science Centre (UNB)
NB Research and Productivity Council (RPC)
Peat Research and Development Centre Inc. (U de M)
Research Laboratory for Industry and the Environment (U de M)
SGS Supervision Services Inc.
Université de Moncton

Industrial Engineering

ADI Limited
Biron Engineering Ltd.
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Lizotte Consultants Ltée/Ltd.
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
Neill and Gunter Limited
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Industrial Process

A.W. Gunn Engineering
ADI Limited
Cadmi Microelectronics/Microelectronique Inc.(U de M)
Engineering Department (U de M)
Lizotte Consultants Ltée/Ltd.
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
Neill and Gunter Limited
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Infant Studies

Mount Allison University
Université de Moncton

Information Processing

ADI Limited
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/Microelectronique Inc.(U de M)
Cadmi Microelectronics/Microelectronique Inc.(UNB)

Computer Science Department (U de M)
Computing Resources
E^3 Inc. (Electronically Enhanced Education)
Engineering Department (U de M)
Fire Science Centre (UNB)
Geoplan Consultants Inc.
Lizotte Consultants Ltée/Ltd.
Omni Ventures Inc.
REMS Research Ltd.
Rockwood Informatics Corp.
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Information Systems

ADI Limited
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/Microelectronique Inc.(UNB)
Computer Science Department (U de M)
Computing Resources
DMR Group Inc.
E^3 Inc. (Electronically Enhanced Education)
Engineering Department (U de M)
Force/Robak Associates Ltd.
Geoplan Consultants Inc.
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Manufacturing Technology Centre (U de M)
Mount Allison University
Northeast Exploration Services Ltd.
Omni Ventures Inc.
REMS Research Ltd.
Research Centre for Energy Conversion (U de M)
Rockwood Informatics Corp.
SMA Engineering
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Inorganic Chemistry

Atlantic Microbiology Ltd.
Environmental Science Research Centre (U de M)
Mount Allison University
NB Research and Productivity Council (RPC)
Peat Research and Development Centre Inc. (U de M)
Research Laboratory for Industry and the Environment (U de M)
SGS Supervision Services Inc.
Université de Moncton
University of New Brunswick

Insect Pest Management

Environmental Science Research Centre (U de M)
Forestry Canada - Maritime Region
NB Research and Productivity Council (RPC)
Université de Moncton
University of New Brunswick

Instrumentation

A.W. Gunn Engineering
ADI Limited
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Fire Science Centre (UNB)
Institute of Biomedical Engineering (UNB)
MCM Machinery Condition Monitoring Inc.
NB Research and Productivity Council (RPC)
NCA Microelectronics Inc.
Neill and Gunter Limited
Techmar Engineering Ltd.
Tidal Industrial Development
University of New Brunswick

Inventory Analysis

Engineering Department (U de M)
Manufacturing Technology Centre (U de M)
Omni Ventures Inc.
School of Forestry-Edmundston (U de M)
Tidal Industrial Development
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Invertebrates

Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
The New Brunswick Museum
SGS Supervision Services Inc.
Shippagan Aquarium and Marine Centre
Université de Moncton
Washburn & Gillis Associates Ltd.

Irradiation

Ionizing Energy Company of Canada Limited

Kinetics

Cadmi Microelectronics/Microelectronique Inc.(U de M)
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Research Laboratory for Industry and the Environment (U de M)
Thin Films and Solar Energy Research Group (U de M)
University of New Brunswick

Lab Safety

Atlantic Nuclear Services Ltd.
Jacques Whitford Environment Limited
NB Research and Productivity Council (RPC)

Lake Ecology

Engineering Department (U de M)
Fundy Engineering and Consulting Ltd.
Mount Allison University
Shippagan Aquarium and Marine Centre
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Land Information Management

ADI Limited
DMR Group Inc.
Jacques Whitford Environment Limited
Omni Ventures Inc.
REMS Research Ltd.
SMA Engineering
Universal Systems Ltd.
University of New Brunswick

Landscape Construction

FENCO Shawinigan Engineering (1991) Ltd.

Landscape Design

Peat Research and Development Centre Inc. (U de M)
REMS Research Ltd.
SMA Engineering
Universal Systems Ltd.

Livestock Control

Lizotte Consultants Ltée/Ltd.

Livestock Production

Engineering Department (U de M)
Lizotte Consultants Ltée/Ltd.

Low Temperature Physics

Université de Moncton

Machinery Design

Lizotte Consultants Ltée/Ltd.

Macrophytes

Huntsman Marine Science Centre
The New Brunswick Museum

Maintenance

Biron Engineering Ltd.
MCM Machinery Condition Monitoring Inc.
Omni Ventures Inc.
Predictive Maintenance Expert Systems Co.
Tidal Industrial Development
Université de Moncton

Mammals
Jacques Whitford Environment Limited
The New Brunswick Museum
Université de Moncton
University of New Brunswick

Manufacturing Technology
Engineering Department (U de M)
Lizotte Consultants Ltée/Ltd.
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
Neill and Gunter Limited
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Mapping
Northeast Exploration Services Ltd.
REMS Research Ltd.
SMA Engineering
School of Forestry-Edmundston (U de M)
Universal Systems Ltd.
University of New Brunswick

Marine
FENCO Shawinigan Engineering (1991) Ltd.
Fiander-Good Associates Ltd.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
SMA Engineering
Tidal Industrial Development
Universal Systems Ltd.
University of New Brunswick

Marine Biology
Biochemistry Group (U de M)
Environmental Science Research Centre (U de M)
Fundy Engineering and Consulting Ltd.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
NB Research and Productivity Council (RPC)
Shippagan Aquarium and Marine Centre
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Marine Ecology
Fundy Engineering and Consulting Ltd.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
NB Research and Productivity Council (RPC)
Research Laboratory for Industry and the Environment (U de M)
Shippagan Aquarium and Marine Centre
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Marine Engineering
ADI Limited
Biron Engineering Ltd.
Engineering Department (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
Fiander-Good Associates Ltd.
Fundy Engineering and Consulting Ltd.
SMA Engineering
Tidal Industrial Development
Universal Systems Ltd.
University of New Brunswick

Marine Fishes
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
NB Research and Productivity Council (RPC)
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Marine Mining
Universal Systems Ltd.

Marine Navigation
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Marine Ornithology
Huntsman Marine Science Centre
Jacques Whitford Environment Limited

Marine Sciences
Fundy Engineering and Consulting Ltd.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Mount Allison University
NB Research and Productivity Council (RPC)
Université de Moncton
University of New Brunswick

Masonry
ADI Limited
Engineering Department (U de M)
Gemtec Limited
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
SMA Engineering
University of New Brunswick

Material Testing & Inspection
ADI Limited
Fire Science Centre (UNB)
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geocon (1991) Inc.
Jacques Whitford Environment Limited
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
SGS Supervision Services Inc.
Tidal Industrial Development
Université de Moncton
University of New Brunswick
Wood Science and Technology Centre (UNB)

Materials Handling & Equipment
ADI Limited
Engineering Department (U de M)
Fiander-Good Associates Ltd.
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
Neill and Gunter Limited
Tidal Industrial Development
Université de Moncton

Materials Science
ADI Limited
Engineering Department (U de M)
Fire Science Centre (UNB)
Jacques Whitford Environment Limited
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
Université de Moncton
University of New Brunswick

Materials Science & Engineering
ADI Limited
Engineering Department (U de M)
Fire Science Centre (UNB)
Fundy Engineering and Consulting Ltd.
Geocon (1991) Inc.
Jacques Whitford Environment Limited
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
Thin Films and Solar Energy Research Group (U de M)
Tidal Industrial Development

Math Modelling and Design
ADI Limited
Atlantic Nuclear Services Ltd.

Cadmi Microelectronics/
Microelectronique Inc.(U de M)
Centre of Mathematics and Statistics
(U de M)
Environmental Science Research Centre
(U de M)
Fire Science Centre (UNB)
Manufacturing Technology Centre
(U de M)
Manufacturing Technology Centre
(UNB)
Mount Allison University
Research Centre for Energy Conversion
(U de M)
Thin Films and Solar Energy
Research Group (U de M)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Mathematics

Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Cadmi Microelectronics/
Microelectronique Inc.(U de M)
Centre of Mathematics and Statistics
(U de M)
Engineering Department (U de M)
Manufacturing Technology Centre
(U de M)
Mount Allison University
SMA Engineering
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Mechanical Engineering

ADI Limited
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Engineering Department (U de M)
Fire Science Centre (UNB)
Institute of Biomedical Engineering
(UNB)
Lizotte Consultants Ltée/Ltd.
MCM Machinery Condition Monitoring
Inc.
Manufacturing Technology Centre
(U de M)
Manufacturing Technology Centre
(UNB)
NB Research and Productivity Council
(RPC)
Neill and Gunter Limited
SMA Engineering
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Mediation

ADI Limited
Jacques Whitford Environment Limited
SMA Engineering

Metallurgy

Fire Science Centre (UNB)
Environmental Science Research Centre
(U de M)
NB Research and Productivity Council
(RPC)
Research Laboratory for Industry and
the Environment (U de M)
Université de Moncton

Meteorology

Engineering Department (U de M)

Microbiology

Food Research Centre (U de M)
Mount Allison University
NB Research and Productivity Council
(RPC)
SGS Supervision Services Inc.
Université de Moncton
University of New Brunswick

Microelectronics

Cadmi Microelectronics/
Microelectronique Inc.(U de M)
Engineering Department (U de M)
NB Research and Productivity Council
(RPC)
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Microprobe Analysis

NB Research and Productivity Council
(RPC)
University of New Brunswick

Microprocessors

ADI Limited
Advanced Systems Design Ltd.
Cadmi Microelectronics/
Microelectronique Inc.(U de M)
Computer Science Department
(U de M)
Engineering Department (U de M)
Institute of Biomedical Engineering
(UNB)
NB Research and Productivity Council
(RPC)
NCA Microelectronics Inc.
Omni Ventures Inc.
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Microscopy

Mount Allison University
NB Research and Productivity Council
(RPC)
University of New Brunswick
Wood Science and Technology Centre
(UNB)

Microwave Heating

Cadmi Microelectronics/
Microelectronique Inc.(U de M)
Environmental Science Research Centre
(U de M)
Research Laboratory for Industry and
the Environment (U de M)
University of New Brunswick

Mineral Resources

ADI Limited
Custom Laboratories Ltd.
Geocon (1991) Inc.
NB Research and Productivity Council
(RPC)
Northeast Exploration Services Ltd.
SCAT Science and Technology Inc.
Universal Systems Ltd.
University of New Brunswick

Mineral Analysis

Atlantic Nuclear Services Ltd.
Custom Laboratories Ltd.
Environmental Science Research Centre
(U de M)
NB Research and Productivity Council
(RPC)
Northeast Exploration Services Ltd.
Research Laboratory for Industry and
the Environment (U de M)
SGS Supervision Services Inc.
University of New Brunswick

Mineral Exploration

Custom Laboratories Ltd.
Geocon (1991) Inc.
Northeast Exploration Services Ltd.
University of New Brunswick

Mineralogy

Atlantic Microbiology Ltd.
NB Research and Productivity Council
(RPC)
The New Brunswick Museum
University of New Brunswick

Mining Engineering

Geocon (1991) Inc.
Jacques Whitford Environment Limited
Neill and Gunter Limited
Universal Systems Ltd.

Modeling

ADI Limited
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/
Microelectronique Inc.(U de M)
Cadmi Microelectronics/
Microelectronique Inc.(UNB)
Centre of Mathematics and Statistics
(U de M)
DMR Group Inc.

E^3 Inc. (Electronically Enhanced Education)
Engineering Department (U de M)
Fire Science Centre (UNB)
Forestry Canada - Maritime Region
Huntsman Marine Science Centre
Institute of Biomedical Engineering (UNB)
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Manufacturing Technology Centre (U de M)
Mount Allison University
Omni Ventures Inc.
REMS Research Ltd.
Universal Systems Ltd.
Université de Moncton

Molecular Biology & Biotechnology

Centre of Mathematics and Statistics (U de M)
Mount Allison University
Université de Moncton
University of New Brunswick

Molecular Dynamics

Mount Allison University
Research Laboratory for Industry and the Environment (U de M)
University of New Brunswick

Mollusks

Biochemistry Group (U de M)
Environmental Science Research Centre (U de M)
Fundy Engineering and Consulting Ltd.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Peat Research and Development Centre (U de M)
Shippagan Aquarium and Marine Centre
Université de Moncton
University of New Brunswick

Museology

Huntsman Marine Science Centre

Mycology

Forestry Canada - Maritime Region
Mount Allison University
Université de Moncton
University of New Brunswick
Wood Science and Technology Centre (UNB)

Networks

ADI Limited
Advanced Systems Design Ltd.
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(UNB)
Computer Science Department (U de M)
DMR Group Inc.
Geoplan Consultants Inc.
Institute of Biomedical Engineering (UNB)
Manufacturing Technology Centre (UNB)
Mount Allison University
Omni Ventures Inc.
Rockwood Informatics Corp.
Universal Systems Ltd.
University of New Brunswick

Neuroscience

Mount Allison University

Non-Destructive Testing

Atlantic Nuclear Services Ltd.
Engineering Department (U de M)
Jacques Whitford Environment Limited
NB Research and Productivity Council (RPC)
Université de Moncton
University of New Brunswick
Wood Science and Technology Centre (UNB)

Non-Linear Vibration

Engineering Department (U de M)
MCM Machinery Condition Monitoring Inc.
Predictive Maintenance Expert Systems Co.
University of New Brunswick

Nuclear Engineering

Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
NB Research and Productivity Council (RPC)
Neill and Gunter Limited
SCAT Science and Technology Inc.
University of New Brunswick

Nuclear Physics

Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
SCAT Science and Technology Inc.
University of New Brunswick

Numerical Analysis

Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Cadmi Microelectronics/ Microelectronique Inc.(UNB)
Centre of Mathematics and Statistics (U de M)
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fire Science Centre (UNB)
MCM Machinery Condition Monitoring Inc.
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Numerical Control

A.W. Gunn Engineering
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Cadmi Microelectronics/ Microelectronique Inc.(UNB)
Engineering Department (U de M)
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Numerical Problem Solving

Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Engineering Department (U de M)
Fire Science Centre (UNB)
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
Mount Allison University
Research Centre for Energy Conversion (U de M)
Universal Systems Ltd.
University of New Brunswick

Nutrient Pollution

ADI Limited

Nutrition

Huntsman Marine Science Centre
NB Research and Productivity Council (RPC)
SCAT Science and Technology Inc.
SGS Supervision Services Inc.
Université de Moncton

Occupation Health & Safety

E^3 Inc. (Electronically Enhanced Education)
Jacques Whitford Environment Limited
NB Research and Productivity Council (RPC)
Tidal Industrial Development
Université de Moncton

Ocean Circulation

Universal Systems Ltd.

Ocean Climatology

Universal Systems Ltd.

Ocean Engineering
ADI Limited
Fundy Engineering and Consulting Ltd.
Shippagan Aquarium and Marine Centre
Tidal Industrial Development
Universal Systems Ltd.
University of New Brunswick

Ocean Mapping
Huntsman Marine Science Centre
Omni Ventures Inc.
Universal Systems Ltd.
University of New Brunswick

Oceanography
Biochemistry Group (U de M)
Jacques Whitford Environment Limited
Mount Allison University
Shippagan Aquarium and Marine Centre
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Offshore & Deep Sea Eng.
Fire Science Centre (UNB)
Universal Systems Ltd.

Oil Transmission
Fire Science Centre (UNB)
Huntsman Marine Science Centre
Neill and Gunter Limited
SMA Engineering
Universal Systems Ltd.

Operating Research
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Computer Science Department (U de M)
Engineering Department (U de M)
Force/Robak Associates Ltd.
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Operating Systems
A.W. Gunn Engineering
ADI Limited
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Cadmi Microelectronics/Microelectronique Inc.(UNB)
Computer Science Department (U de M)
Manufacturing Technology Centre (UNB)
Omni Ventures Inc.
Predictive Maintenance Expert Systems Co.
Universal Systems Ltd.

Optics
Cadmi Microelectronics/Microelectronique Inc.(UNB)
Computer Science Department (U de M)
Engineering Department (U de M)
Thin Films and Solar Energy Research Group (U de M)
Université de Moncton

Organic Chemistry
Environmental Science Research Centre (U de M)
Mount Allison University
NB Research and Productivity Council (RPC)
Peat Research and Development Centre Inc. (U de M)
SGS Supervision Services Inc.
Université de Moncton
University of New Brunswick

Packaging
Thermopak Ltée/Ltd.

Paleontology
Mount Allison University
The New Brunswick Museum
University of New Brunswick
Washburn & Gillis Associates Ltd.

Parallel Computing
Advanced Systems Design Ltd.
Atlantic Nuclear Services Ltd.
Computer Science Department (U de M)
E^3 Inc. (Electronically Enhanced Education)
Omni Ventures Inc.
Universal Systems Ltd.
University of New Brunswick

Parasitology
Huntsman Marine Science Centre
The New Brunswick Museum
Université de Moncton
University of New Brunswick

Partial Differential Eqtns
Biron Engineering Ltd.
Biology Department (U de M)
Mount Allison University
Université de Moncton
University of New Brunswick

Pavement Design
ADI Limited
FENCO Shawinigan Engineering (1991) Ltd.
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geocon (1991) Inc.
Jacques Whitford Environment Limited
Neill and Gunter Limited
SMA Engineering
University of New Brunswick

Pavement Research
ADI Limited
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geocon (1991) Inc.
Geoplan Consultants Inc.
SMA Engineering
University of New Brunswick

Pelagic Ecology
Jacques Whitford Environment Limited
Mount Allison University

Pesticide Pollution
ADI Limited
Environmental Science Research Centre (U de M)
Jacques Whitford Environment Limited
NB Research and Productivity Council (RPC)
Research Laboratory for Industry and the Environment (U de M)
SGS Supervision Services Inc.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Petroleum Resources
SMA Engineering
Universal Systems Ltd.

Petrology
Atlantic Microbiology Ltd.
SGS Supervision Services Inc.
Universal Systems Ltd.

Photogrammetry
SMA Engineering
School of Forestry-Edmundston (U de M)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Physical Chemistry
Atlantic Microbiology Ltd.
Environmental Science Research Centre (U de M)
Mount Allison University
NB Research and Productivity Council (RPC)
Research Laboratory for Industry and the Environment (U de M)
SGS Supervision Services Inc.
SMA Engineering
University of New Brunswick

Physical Oceanography
Universal Systems Ltd.

Physics
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Mount Allison University
SCAT Science and Technology Inc.
Université de Moncton
University of New Brunswick

Physiology (Plant and Animal)
University of New Brunswick

Phytoplankton
Biochemistry Group (U de M)
Biology Department (U de M)
Jacques Whitford Environment Limited
Mount Allison University
Shippagan Aquarium and Marine Centre
University of New Brunswick

Plant Science
Forestry Canada - Maritime Region
Jacques Whitford Environment Limited
Mount Allison University
REMS Research Ltd.
University of New Brunswick

Plasma Physics
Atlantic Nuclear Services Ltd.
NB Research and Productivity Council (RPC)
SCAT Science and Technology Inc.
University of New Brunswick

Pollutant Transport
ADI Limited
Atlantic Microbiology Ltd.
Atlantic Nuclear Services Ltd.
Environmental Science Research Centre (U de M)
Fire Science Centre (UNB)
Gemtec Limited
Jacques Whitford Environment Limited
Research Laboratory for Industry and the Environment (U de M)
Universal Systems Ltd.
Université de Moncton

Pollution
ADI Limited
Atlantic Microbiology Ltd.
Atlantic Nuclear Services Ltd.
Environmental Science Research Centre (U de M)
Forestry Canada - Maritime Region
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
NB Research and Productivity Council (RPC)
Peat Research and Development Centre Inc. (U de M)
Research Laboratory for Industry and the Environment (U de M)
SCAT Science and Technology Inc.
SGS Supervision Services Inc.
SMA Engineering
Tidal Industrial Development
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Polymer Melts
Tidal Industrial Development

Population Studies
Biology Department (U de M)
Engineering Department (U de M)
Geoplan Consultants Inc.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Northeast Exploration Services Ltd.
SMA Engineering
Université de Moncton

Power Plants
A.W. Gunn Engineering
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Fire Science Centre (UNB)
NB Research and Productivity Council (RPC)
Neill and Gunter Limited
Techmar Engineering Ltd.
Université de Moncton
University of New Brunswick

Power Systems
A.W. Gunn Engineering
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(UNB)
Fire Science Centre (UNB)
Neill and Gunter Limited
Techmar Engineering Ltd.
University of New Brunswick

Process Control Systems
A.W. Gunn Engineering
ADI Limited
Advanced Systems Design Ltd.
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Cadmi Microelectronics/ Microelectronique Inc.(UNB)
E^3 Inc. (Electronically Enhanced Education)
Engineering Department (U de M)
Lizotte Consultants Ltée/Ltd.
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (UNB)
Neill and Gunter Limited
Omni Ventures Inc.
Predictive Maintenance Expert Systems Co.
SGS Supervision Services Inc.
Techmar Engineering Ltd.
Tidal Industrial Development
University of New Brunswick

Product/Process Design & Demonstration
ADI Limited
Biron Engineering Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Cadmi Microelectronics/ Microelectronique Inc.(UNB)
Engineering Department (U de M)
Lizotte Consultants Ltée/Ltd.
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
NCA Microelectronics
SGS Supervision Services Inc.
Thermopak Ltée/Ltd.
Thin Films and Solar Energy Research Group (U de M)
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Production Control Systems
ADI Limited
Advanced Systems Design Ltd.
Biron Engineering Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(UNB)
E^3 Inc. (Electronically Enhanced Education)
Engineering Department (U de M)
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
NCA Microelectronics Inc.
Neill and Gunter Limited
Omni Ventures Inc.
SGS Supervision Services Inc.
Techmar Engineering Ltd.
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Productivity
Biron Engineering Ltd.
Biology Department (U de M)

E^3 Inc. (Electronically Enhanced Education)
Lizotte Consultants Ltée/Ltd.
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (UNB)
Neill and Gunter Limited
SCAT Science and Technology Inc.
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Productivity Improvement

Biron Engineering Ltd.
Cadmi Microelectronics/Microelectronique Inc.(UNB)
E^3 Inc. (Electronically Enhanced Education)
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Force/Robak Associates Ltd.
Lizotte Consultants Ltée/Ltd.
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
Peat Research and Development Centre Inc. (U de M)
Research Laboratory for Industry and the Environment (U de M)
Tidal Industrial Development
Université de Moncton

Programming Languages

Advanced Systems Design Ltd.
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/Microelectronique Inc.(U de M)
Computer Science Department (U de M)
E^3 Inc. (Electronically Enhanced Education)
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Lizotte Consultants Ltée/Ltd.
Mount Allison University
Omni Ventures Inc.
REMS Research Ltd.
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Project Management

A.W. Gunn Engineering
ADI Limited
Biron Engineering Ltd.
DMR Group Inc.
E^3 Inc. (Electronically Enhanced Education)
Engineering Department (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
Force/Robak Associates Ltd.
Fundy Engineering and Consulting Ltd.
Geocon (1991) Inc.
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Manufacturing Technology Centre (U de M)
Neill and Gunter Limited
Omni Ventures Inc.
SMA Engineering
Techmar Engineering Ltd.
Tidal Industrial Development
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Prosthetics

Institute of Biomedical Engineering (UNB)

Psycopharmacology

Mount Allison University
University of New Brunswick

Pulp and Paper

A.W. Gunn Engineering
Atlantic Microbiology Ltd.
ADI Limited
E^3 Inc. (Electronically Enhanced Education)
Fire Science Centre (UNB)
Industrial Research Chair in Pulping Technology (Incutech, UNB)
Jacques Whitford Environment Limited
MCM Machinery Condition Monitoring Inc.
Mount Allison University
Neill and Gunter Limited
SGS Supervision Services Inc.
Tidal Industrial Development
University of New Brunswick

Quality Control

Biron Engineering Ltd.
Cadmi Microelectronics/Microelectronique Inc.(UNB)
Custom Laboratories Ltd.
Biology Department (U de M)
E^3 Inc. (Electronically Enhanced Education)
Fiander-Good Associates Ltd.
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geocon (1991) Inc.
Jacques Whitford Environment Limited
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
Omni Ventures Inc.
SGS Supervision Services Inc.
Tidal Industrial Development
Universal Systems Ltd.
University of New Brunswick
Wood Science and Technology Centre (UNB)

Radiating Systems

Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Fire Science Centre (UNB)
University of New Brunswick

Radioactive Wastes

ADI Limited
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
SCAT Science and Technology Inc.
University of New Brunswick
Washburn & Gillis Associates Ltd.

Radon Studies

Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Neill and Gunter Limited
SCAT Science and Technology Inc.

Random Vibrations

MCM Machinery Condition Monitoring Inc.
Neill and Gunter Limited
Predictive Maintenance Expert Systems Co.
University of New Brunswick

Regional Resource Development Studies

Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Neill and Gunter Limited
Northeast Exploration Services Ltd.
REMS Research Ltd.
SMA Engineering
Tidal Industrial Development
Université de Moncton
University of New Brunswick

Remote Sensing

Cadmi Microelectronics/Microelectronique Inc.(UNB)
E^3 Inc. (Electronically Enhanced Education)
Forestry Canada - Maritime Region
NCA Microelectronics Inc.
Neill and Gunter Limited
REMS Research Ltd.
SMA Engineering
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Resource Assessment
Engineering Department (U de M)
Force/Robak Associates Ltd.
Geocon (1991) Inc.
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Manufacturing Technology Centre (U de M)
Peat Research and Development Centre Inc. (U de M)
REMS Research Ltd.
Universal Systems Ltd.
Université de Moncton

Risk Analysis
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/Microelectronique Inc.(U de M)
E^3 Inc. (Electronically Enhanced Education)
Engineering Department (U de M)
Fire Science Centre (UNB)
Geocon (1991) Inc.
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (U de M)
Predictive Maintenance Expert Systems Co.
SMA Engineering
Universal Systems Ltd.
Université de Moncton
Washburn & Gillis Associates Ltd.

River Ecology
Shippagan Aquarium and Marine Centre
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Jacques Whitford Environment Limited
Mount Allison University
SMA Engineering
The New Brunswick Museum
Tidal Industrial Development
Universal Systems Ltd.
Université de Moncton
Washburn & Gillis Associates Ltd.

River Engineering
ADI Limited
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geocon (1991) Inc.
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
SMA Engineering
Tidal Industrial Development
Universal Systems Ltd.
University of New Brunswick

Rivers
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Gemtec Limited
Mount Allison University
SMA Engineering
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Robotic Vision
Advanced Systems Design Ltd.
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/Microelectronique Inc.(UNB)
E^3 Inc. (Electronically Enhanced Education)
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
Université de Moncton
University of New Brunswick

Robotics
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/Microelectronique Inc.(U de M)
Cadmi Microelectronics/Microelectronique Inc.(UNB)
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
Université de Moncton
University of New Brunswick

Science Policy
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Biology Department (U de M)
Fire Science Centre (UNB)
NB Research and Productivity Council (RPC)
SCAT Science and Technology Inc.

Sediment Water Interface
Environmental Science Research Centre (U de M)
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
Research Laboratory For Industry and the Environment (U de M)
Shippagan Aquarium and Marine Centre
Université de Moncton

Sedimentology
Mount Allison University
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Seismology
University of New Brunswick

Sensors
A.W. Gunn Engineering
Advanced Systems Design Ltd.
Biron Engineering Ltd.
Cadmi Microelectronics/Microelectronique Inc.(UNB)
Greystone Energy Systems Inc.
Manufacturing Technology Centre (Mt. A University)
Mount Allison University
NB Research and Productivity Council (RPC)

Ship Design
Fire Science Centre (UNB)

Ship Modeling
Fire Science Centre (UNB)

Signal Processing
Advanced Systems Design Ltd.
Cadmi Microelectronics/Microelectronique Inc.(UNB)
E^3 Inc. (Electronically Enhanced Education)
Engineering Department (U de M)
Institute of Biomedical Engineering (UNB)
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (Mt. A University)
Mount Allison University
NB Research and Productivity Council (RPC)
NCA Microelectronics Inc.
Université de Moncton
University of New Brunswick

Silviculture
Forestry Canada - Maritime Region
Jacques Whitford Environment Limited
Mount Allison University
School of Forestry-Edmundston (U de M)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Soil Science
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Forestry Canada - Maritime Region

Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Peat Research and Development Centre Inc. (U de M)
Research Laboratory for Industry and the Environment (U de M)
School of Forestry-Edmundston (U de M)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Solar Radiation
Biron Engineering Ltd.
Cadmi Microelectronics/Microelectronique Inc.(UNB)
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Mount Allison University
SCAT Science and Technology Inc.
Thin Films and Solar Energy Research Group (U de M)
Université de Moncton
University of New Brunswick

Solid State Physics
Thin Films and Solar Energy Research Group (U de M)
Université de Moncton
University of New Brunswick

Spectrometry
Environmental Science Research Centre (U de M)
NB Research and Productivity Council (RPC)
Research Laboratory for Industry and the Environment (U de M)
Thin Films and Solar Energy Research Group (U de M)
Université de Moncton
University of New Brunswick

Spectroscopy
Environmental Science Research Centre (U de M)
Mount Allison University
NB Research and Productivity Council (RPC)
Research Laboratory for Industry and the Environment (U de M)
Thin Films and Solar Energy Research Group (U de M)
Université de Moncton
University of New Brunswick

Statistical Modeling
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/Microelectronique Inc.(U de M)
Centre of Mathematics and Statistics (U de M)
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fiander-Good Associates Ltd.
Geoplan Consultants Inc.
Huntsman Marine Science Centre
Institute of Biomedical Engineering (UNB)
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (U de M)
Mount Allison University
Omni Ventures Inc.
SMA Engineering
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Statistical Sampling
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/Microelectronique Inc.(U de M)
Centre of Mathematics and Statistics (U de M)
Fiander-Good Associates Ltd.
Gemtec Limited
Geoplan Consultants Inc.
Huntsman Marine Science Centre
MCM Machinery Condition Monitoring Inc.
Mount Allison University
Omni Ventures Inc.
REMS Research Ltd.
Research Laboratory for Industry and the Environment (U de M)
SMA Engineering
Shippagan Aquarium and Marine Centre
Université de Moncton

Statistical Sampling & Test.
Atlantic Nuclear Services Ltd.
Cadmi Microelectronics/Microelectronique Inc.(U de M)
Centre of Mathematics and Statistics (U de M)
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fiander-Good Associates Ltd.
Gemtec Limited
Jacques Whitford Environment Limited
Huntsman Marine Science Centre
Institute of Biomedical Engineering (UNB)
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (UNB)
Omni Ventures Inc.
Research Laboratory for Industry and the Environment (U de M)
Shippagan Aquarium and Marine Centre
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Statistics
ADI Limited
Atlantic Nuclear Services Ltd.
Centre of Mathematics and Statistics (U de M)
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Huntsman Marine Science Centre
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
Mount Allison University
Omni Ventures Inc.
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Stereolithography
Cadmi Microelectronics/Microelectronique Inc. (U de M)

Stratigraphy
Atlantic Microbiology Ltd.
Cadmi Microelectronics/Microelectronique Inc.(U de M)
Engineering Department (U de M)
University of New Brunswick

Stream Ecology
Fundy Engineering and Consulting Ltd.
Environmental Science Research Centre (U de M)
Jacques Whitford Environment Limited
Mount Allison University
The New Brunswick Museum
Université de Moncton
Washburn & Gillis Associates Ltd.

Streams
Centre of Mathematics and Statistics (U de M)
Jacques Whitford Environment Limited
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Stress Analysis
Atlantic Nuclear Services Ltd.
Engineering Department (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (UNB)
Neill and Gunter Limited
SMA Engineering
Tidal Industrial Development
University of New Brunswick

Structural Construction
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
MCM Machinery Condition Monitoring Inc.
Neill and Gunter Limited
SMA Engineering
Université de Moncton
University of New Brunswick

Structural Geology
Fundy Engineering and Consulting Ltd.
University of New Brunswick

Structures
Engineering Department (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
MCM Machinery Condition Monitoring Inc.
Neill and Gunter Limited
SMA Engineering
Université de Moncton
University of New Brunswick

Surveying
ADI Limited
FENCO Shawinigan Engineering (1991) Ltd.
Fiander-Good Associates Ltd.
Geoplan Consultants Inc.
SGS Supervision Services Inc.
Universal Systems Ltd.
University of New Brunswick

Surveying Engineering
ADI Limited
Environmental Science Research Centre (U de M)
Fiander-Good Associates Ltd.
Geoplan Consultants Inc.
Lizotte Consultants Ltée/Ltd.
Universal Systems Ltd.
University of New Brunswick

System Analysis
ADI Limited
Atlantic Nuclear Services Ltd.
Centre of Mathematics and Statistics (U de M)
Computing Resources
DMR Group Inc.
E^3 Inc. (Electronically Enhanced Education)
Geoplan Consultants Inc.
Lizotte Consultants Ltée/Ltd.
Manufacturing Technology Centre (UNB)
Omni Ventures Inc.
REMS Research Ltd.
Rockwood Informatics Corp.
Universal Systems Ltd.
University of New Brunswick

Taxonomy
Computer Science Department (U de M)
Forestry Canada - Maritime Region
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
The New Brunswick Museum
Université de Moncton

Taxonomy and Systematics
Computer Science Department (U de M)
Forestry Canada - Maritime Region
Huntsman Marine Science Centre
The New Brunswick Museum
Université de Moncton

Technical Assistance
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Cadmi Microelectronics/ Microelectronique Inc.(UNB)
Environmental Science Research Centre (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
Food Research Centre (U de M)
Huntsman Marine Science Centre
Lizotte Consultants Ltée/Ltd.
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
Neill and Gunter Limited
Omni Ventures Inc.
Peat Research and Development Centre Inc. (U de M)
REMS Research Ltd.
Research Centre for Energy Conversion (U de M)
Research Laboratory for Industry and the Environment (U de M)
SGS Supervision Services Inc.
Techmar Engineering Ltd.
Thin Films and Solar Energy Research Group (U de M)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Technology Transfer
Atlantic Nuclear Services Ltd.
Biron Engineering Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(UNB)
DMR Group Inc.
E^3 Inc. (Electronically Enhanced Education)
Fire Science Centre (UNB)
Forestry Canada - Maritime Region
Jacques Whitford Environment Limited
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
Neill and Gunter Limited
Omni Ventures Inc.
REMS Research Ltd.
Techmar Engineering Ltd.
Universal Systems Ltd.
University of New Brunswick

Tectonics
University of New Brunswick

Telecommunications
Advanced Systems Design Ltd.
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Computer Science Department (U de M)
DMR Group Inc.
E^3 Inc. (Electronically Enhanced Education)
NCA Microelectronics Inc.
Omni Ventures Inc.
University of New Brunswick

Testing
Biron Engineering Ltd.
Centre of Mathematics and Statistics (U de M)
E^3 Inc. (Electronically Enhanced Education)
Engineering Department (U de M)
Fire Science Centre (UNB)
Geocon (1991) Inc.
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (UNB)
NB Research and Productivity Council (RPC)
Omni Ventures Inc.
Research Centre For Energy Conversion (U de M)
SGS Supervision Services Inc.
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Wood Science and Technology Centre (UNB)

Theoretical Chemistry
Mount Allison University
Université de Moncton
University of New Brunswick

Theoretical Mathematics
Atlantic Nuclear Services Ltd.
Centre of Mathematics and Statistics (U de M)
University of New Brunswick

Theoretical Physics
Atlantic Nuclear Services Ltd.
Centre of Mathematics and Statistics (U de M)
University of New Brunswick

Thin Section Preparation
Mount Allison University
University of New Brunswick

Tidal Power
Engineering Department (U de M)

Tides
Engineering Department (U de M)
Mount Allison University
SMA Engineering
Tidal Industrial Development
Universal Systems Ltd.

Timber Harvesting
Force/Robak Associates Ltd.
Neill and Gunter Limited
Universal Systems Ltd.
University of New Brunswick

Topology
Environmental Science Research Centre (U de M)
Mount Allison University
Universal Systems Ltd.

Toxicology
Environmental Science Research Centre (U de M)
Jacques Whitford Environment Limited
The New Brunswick Museum
Research Laboratory for Industry and the Environment (U de M)
SGS Supervision Services Inc.
Shippagan Aquarium and Marine Centre
Washburn & Gillis Associates Ltd.

Traffic/Transportation
ADI Limited
FENCO Shawinigan Engineering (1991) Ltd.
Fiander-Good Associates Ltd.
Geoplan Consultants Inc.
Jacques Whitford Environment Limited
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Translation
Jacques Whitford Environment Limited
Universal Systems Ltd.
Université de Moncton

Transport Phenomena
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
Fire Science Centre (UNB)
Geoplan Consultants Inc.
Lizotte Consultants Ltée/Ltd.
NB Research and Productivity Council (RPC)
Université de Moncton
University of New Brunswick

Transportation
ADI Limited
Engineering Department (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
Fiander Good Associates Ltd.
Geoplan Consultants Inc.
Research Laboratory for Industry and the Environment (U de M)
SMA Engineering
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Transportation and Planning
ADI Limited
Computing Resources
Engineering Department (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
Fiander-Good Associates Ltd.
Geoplan Consultants Inc.
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
SMA Engineering
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Transportation Engineering
ADI Limited
Engineering Department (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
Fiander-Good Associates Ltd.
Geoplan Consultants Inc.
SMA Engineering
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Tree Improvement
Forestry Canada - Maritime Region
Mount Allison University
School of Forestry-Edmundston (U de M)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Tribology
MCM Machinery Condition Monitoring Inc.

Utology
SCAT Science and Technology Inc. Inc.

Vacuum Technology
Thin Films and Solar Energy Research Group (U de M)
Université de Moncton

Vessels
Fire Science Centre (UNB)
Université de Moncton
University of New Brunswick

Vibration
Engineering Department (U de M)
Fundy Engineering and Consulting Ltd.
Jacques Whitford Environment Limited
MCM Machinery Condition Monitoring Inc.
Manufacturing Technology Centre (U de M)
Manufacturing Technology Centre (UNB)
Neill and Gunter Limited
Predictive Maintenance Expert Systems Co.
Université de Moncton
University of New Brunswick

Visual Perceptions
Mount Allison University
University of New Brunswick

VLSI Design
Cadmi Microelectronics/ Microelectronique Inc.(U de M)
Cadmi Microelectronics/ Microelectronique Inc.(UNB)
E^3 Inc. (Electronically Enhanced Education)
Omni Ventures Inc.
University of New Brunswick

Volcanology
Mount Allison University

Waste Water
ADI Limited
Engineering Department (U de M)
Environmental Science Research Centre (U de M)
FENCO Shawinigan Engineering (1991) Ltd.
Fundy Engineering and Consulting Ltd.
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
NB Research and Productivity Council (RPC)

Peat Research and Development
Centre Inc. (U de M)
SGS Supervision Services Inc.
SMA Engineering
Tidal Industrial Development
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Water Resources

ADI Limited
Centre of Mathematics and Statistics
(U de M)
Engineering Department (U de M)
Environmental Science Research Centre
(U de M)
FENCO Shawinigan Engineering (1991)
Ltd.
Fundy Engineering and Consulting Ltd.
Gemtec Limited
Geocon (1991) Inc.
Jacques Whitford Environment Limited
Lizotte Consultants Ltée/Ltd.
Neill and Gunter Limited
Research Laboratory for Industry and
the Environment (U de M)
SMA Engineering
School of Forestry-Edmundston
(U de M)
Shippagan Aquarium and Marine Centre
Universal Systems Ltd.
Université de Moncton
University of New Brunswick
Washburn & Gillis Associates Ltd.

Wave Energy

Engineering Department (U de M)
Environmental Science Research Centre
(U de M)
Huntsman Marine Science Centre
Tidal Industrial Development

Waves

Huntsman Marine Science Centre
Mount Allison University
Tidal Industrial Development
Universal Systems Ltd.

Wildlife Biology

Environmental Science Research Centre
(U de M)
Huntsman Marine Science Centre
Jacques Whitford Environment Limited
The New Brunswick Museum
REMS Research Ltd.
School of Forestry-Edmundston
(U de M)
Universal Systems Ltd.
Université de Moncton
University of New Brunswick

Wind Energy

ADI Limited
Cadmi Microelectronics/
Microelectronique Inc.(UNB)
Engineering Department (U de M)
Environmental Science Research Centre
(U de M)
Thin Films and Solar Energy
Research Group (U de M)
Université de Moncton

Wind Engineering

Thin Films and Solar Energy
Research Group (U de M)
University of New Brunswick

Wood Chip Handling

ADI Limited
Neill and Gunter Limited
SMA Engineering
School of Forestry-Edmundston
(U de M)
Université de Moncton
University of New Brunswick
Wood Science and Technology Centre
(UNB)

Wood Engineering

ADI Limited
MCM Machinery Condition Monitoring
Inc.
Manufacturing Technology Centre
(UNB)
Neill and Gunter Limited
University of New Brunswick
Wood Science and Technology Centre
(UNB)

Wood Science

Atlantic Microbiology Ltd.
Engineering Department (U de M)
Neill and Gunter Limited
School of Forestry-Edmundston
(U de M)
Université de Moncton
University of New Brunswick
Wood Science and Technology Centre
(UNB)

Wood Technology

MCM Machinery Condition Monitoring
Inc.
Neill and Gunter Limited
School of Forestry-Edmundston
(U de M)
Université de Moncton
University of New Brunswick
Wood Science and Technology Centre
(UNB)

Zooplankton

Huntsman Marine Science Centre
Jacques Whitford Environment Limited
SGS Supervision Services Inc.
Shippagan Aquarium and Marine Centre

NEW BRUNSWICK ORGANIZATIONS CONDUCTING RESEARCH AND DEVELOPMENT ACTIVITIES
ALPHABETICAL CLASSIFICATION

NEW BRUNSWICK ORGANIZATIONS
CONDUCTING RESEARCH AND DEVELOPMENT ACTIVITIES
ALPHABETICAL CLASSIFICATION

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ADI Limited

ADI Limited
P.O. Box 44, Station "A"
1133 Regent Street
Fredericton, New Brunswick
E3B 4Y2

Contact: Andrew Steeves, P. Eng.
Position: Marketing Coordinator

Tel.: (506) 452-9000
Fax: (506) 459-3954

Mandate:

The research and development capabilities of ADI Limited compliment the company's primary mission as a provider of consulting engineering and planning services. Key service areas include wastewater treatment, site remediation, groundwater protection, building engineering, biomass engineering, Geographic Information Services (GIS), process instrumentation and control, and engineering materials.

Main Categories of Applied Research and Development Activities Offered:

Engineering
Geomatics
Technology Management

Expertise in Applied Research and Development:

- Wastewater treatment of warm, strong, and organic wastewater (food processing, pharmaceutical, brewing, dairy, meat processing, distillery)
- Biomass energy for steam or electrical generation
- Buildings engineering (energy conservation, building materials)
- Environmental protection
- Aggregate alkali reactivity
- Nutrient removal from wastewater
- Application of microprocessor controls and instrumentation
- Application of membrane materials for the containment and collection of wastewater, hazardous liquids and gases

Equipment/Facilities Used:

- Environmental Engineering Laboratory for analysis of wastewater and wastewater treatability
- Engineering Materials Testing Laboratory including facilities for testing of aggregate alkali reactivity, concrete, aggregate and asphalt (CSA approved)
- Computer hardware and software for Geographic Information Services (GIS), Facilities Management (FM), Computer Aided Design and Drafting (CADD), and process control and instrumentation

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts from government
- Collaborative projects
- Consulting services

Major Affiliations:

- Acadia Consultants and Inspectors (ACI)
- ADI - Systems
- Geomembrane Technologies Inc. (GTI)
- Architects' Design Group

Collaborative Research Projects:

- Wastewater treatment studies with
  - National Research Council of Canada
  - Environment Canada, University of New Brunswick
  - Department of Economic Development and Tourism (N.B.)
  - Atlantic Canada Opportunities Agency (ACOA)
  - Several private companies
- Aggregate alkali reactivity research - Energy, Mines and Resources Canada
- Buildings Engineering studies - Canada Mortgage and Housing and the N.B. Departments of Health and Supply and Services

Composition of Employees:

Scientists and Engineers: 8
Technicians and Technical Specialists: 2
Graduate Students: 2

Services Offered in:

English

A.W. Gunn Engineering

A.W. Gunn Engineering
190 Prospect Street West
Fredericton, New Brunswick
E3B 2T8

Contact: Arthur W. Gunn, P. Eng.
Position: Principal

Tel.: (506) 457-2020
Fax: (506) 459-3400

Mandate:

A.W. Gunn Engineering provides engineering and computer aided drafting services to New Brunswick industry. These services include feasibility studies, design and specifications, and computer aided drafting. Extensive use is made of computer assisted analysis. These services apply to: process and environmental instrumentation and graphical operator systems, and electrical process control and power distribution to equipment.

Main Categories of Applied Research and Development Activities Offered:

Engineering

Expertise in Applied Research and Development:

- Process instrumentation and control systems
- Environmental monitoring and data acquisition

Interactions with Industry:

- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies

Composition of Employees:

Scientists and Engineers: 1
Technicians and Technical Specialists: 1

Services Offered in:

English

Advanced Systems Design Ltd.

Advanced Systems Design Ltd.
162 Topcliffe Crescent
Fredericton, New Brunswick
E3B 4P9

Contact: Dr. B.J. Kurz
Position: President

Tel.: (506) 455-3113
Fax: (506) 455-3113

Mandate:

ASD was incorporated in 1984 to develop and manufacture process monitoring and control systems for the resource industry (mainly the forest and lumber industry). All R&D is carried out in-house and includes process automation, user interfaces, computer design for special applications, data communication and machine vision. ASD's product lines include automated lumber tally systems, log tally systems and data entry instruments.

Main Categories of Applied Research and Development Activities Offered:

Computer Science
Electronics
Telecommunications

Expertise in Applied Research and Development:

- Process monitoring and control (computer based)
- Data acquisition, local and remote, telemetry
- Data communication
- Machine vision systems (artificial intelligence)
- Application software, particularly real-time software

Equipment/Facilities Used:

- Microprocessor development systems (hardware)
- Software development system (real-time)
- Machine vision equipment

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts from government
- Collaborative projects

Collaborative Research Projects:

- Development of telemetry system for subsidence measurement (CANMET) - ERCL Ltd., Fredericton
- R&D for development of tally systems for the Maritime market - M.L. Wilkins Lumber Ltd.
- R&D for development of tally systems for the U.S. market - Engel Technology, NH, U.S.A.

Composition of Employees:

Scientists and Engineers: 2

Services Offered in:

English
German
Polish

Atlantic Microbiology Ltd.

Atlantic Microbiology Ltd.
Oak Point Research Centre
R.R. #1
Hampstead, New Brunswick
E0G 1Y0

Contact: Lucy Wilson
Position: General Manager

Tel.: (506) 425-2569
Fax: (506) 425-2575

Mandate:

Atlantic Microbiology Ltd. is involved in the development of new chemical products and processes; chemical research aimed at resolving problems in manufacturing processes, technology, and waste disposal, treatment, and use. The firm does work on chlor-alkali systems, sulfur and potassium chemicals, creosote, waste bark and chemicals, etc. Ongoing research in geology and archaeology is also conducted.

Main Categories of Applied Research and Development Activities Offered:

Chemistry
Geology
Wood Science and Technology

Expertise in Applied Research and Development:

- Chemical processes and manufacturing
- Waste treatment and recovery
- New chemical technology

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts to companies
- Collaborative projects
- Consulting services
- Use of facilities

Composition of Employees:

Scientists and Engineers: 2
Technicians and Technical Specialists: 2
Consulting Engineer: 1

Services Offered in:

English
French

Atlantic Nuclear Services Ltd.

Atlantic Nuclear Services Ltd.
P.O. Box 1268
500 Beaverbrook Court
Fredericton, New Brunswick
E3B 5C8

Contact: Dr. C. Keith Scott
Position: President

Tel.: (506) 458-9552
Fax: (506) 451-0525

Mandate:

Atlantic Nuclear Services is an engineering and technical services company specializing in advanced engineering for the nuclear power program, aerospace industries, nuclear medicine, environmental reviews and military industries. As part of the business mandate, Atlantic Nuclear develops technology in the areas of nuclear science, environmental science, computer science and instrumentation and control.

Main Categories of Applied Research and Development Activities Offered:

Chemistry
Computer Science
Electronics
Engineering
Mathematics
Nuclear Energy
Physics
Statistics
Technology Management

Expertise in Applied Research and Development:

- Nuclear science and engineering
- Energy systems
- Environmental impact
- Risk assessment/management
- Computer hardware systems
- Software engineering
- Robotics
- Mathematical modelling
- Expert systems

Equipment/Facilities Used:

- Nuclear science and technology library

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to laboratories
- Use of facilities

Major Affiliations:

- Registered by NSERC to have industrial research scholarships and fellowships
- Member of NBE International Inc.
- University/industry collaboration with Université de Montréal

Collaborative Research Projects:

- Application of parallel processing in process simulation - Université de Montréal
- Parallel architectures for radiation transport analysis in nuclear medicine - Université de Montréal and Alex Informatique Inc.
- A study of severe accidents in Canadian power reactors - Electrowatt Engineering (UK)
- Expert systems as decision tools - UNB
- Verification and validation of real-time software - UNB

Composition of Employees:

Scientists and Engineers: 12

Services Offered in:

English
French

Biochemistry Group (U de M)

Biochemistry Group
Department of Chemistry and Biochemistry
Université de Moncton
Moncton, New Brunswick
E1A 3E9

Tel.: (506) 858-4331
Fax: (506) 858-4541

Contact: Didier Gauthier
Position: Coordinator

Tel.: (506) 858-4355

Mandate:

The "Biochemistry Group " is a group of biochemistry professors in the Department of Chemistry and Biochemistry at the Université de Moncton. The members collaborate with each other and with outside organizations to carry out basic or applied research in their fields of expertise.

Main Categories of Applied Research and Development Activities Offered:

Biology
Bio-technical
Fisheries

Expertise in Applied Research and Development:

- Genetic analysis of animal populations
- Analysis and identification of biomolecules
- Studies on metabolism

Equipment/Facilities Used:

- Ultracentrifuge
- HPLC
- Scintillation counter for liquid medium

Interactions with Industry:

- Contracts from government
- Collaborative projects
- Consulting services

Major Affiliations:

- Université de Moncton
- Department of Chemistry and Biochemistry

Collaborative Research Projects:

- Study of feasibility of use of lipofuscins to determine the absolute age of the snow crab - the Biochemistry Group and the Department of Fisheries and Oceans
- Identification of a sex pheromone in the snow crab - the Biochemistry Group and the Department of Fisheries and Oceans
- Application of techniques of biochemical analysis to cultivate mollusks - the Biochemistry Group and the Department of Fisheries and Oceans
- Study of the metabolism of domoic acid by the diatom N pungens - the Biochemistry Group and the Department of Fisheries and Oceans

Composition of Employees:

Scientists and Engineers: 2
Graduate Students: 4

Services Offered in:

French

Biology Department (U de M)

Biology Department
Université de Moncton
Moncton, New Brunswick
E1A 3E9

Tel.: (506) 858-4334
Fax: (506) 858-4541

Contact: Andrew Boghen
Position: Professor and Chairman (Biology)

Tel.: (506) 858-4321

Mandate:

The Biology Department and its associated staff undertake research and provide services, contractual and others, in a wide number of fields. The Department is very involved in the areas of molluskan aquaculture research and technology, and is interested in monitoring waters and in understanding all aspects related to quality of oysters. Pathology, infection, and depuration are also areas of interest.

Main Categories of Applied Research and Development Activities Offered:

Agriculture
Aquaculture
Biology
Fisheries

Expertise in Applied Research and Development:

- Terrestrial ecology, integrated approach to controlling and understanding damaging insects and weeds of common vegetables
- Environmental monitoring of marine waters
- Fish physiology and population dynamics
- Crustacean physiology studies
- Nutrition work for crustaceans
- Primary productivity, pollution indecies, and plankton analysis

Equipment/Facilities Used:

- Good conventional microscopic and histological equipment
- Access to marine laboratories in Baie des Chaleurs and the Bay of Fundy

Interactions with Industry:

- Contracts from government
- Consulting services
- Temporary transfer of staff to laboratories

Collaborative Research Projects:

- Oyster monitoring program in North and Southeastern New Brunswick to determine growing site quality - Departments of Fisheries & Aquaculture and Fisheries & Oceans
- A study of the potential threats of weeds in growth and cultivation of edible plants - Agriculture Canada
- Various programs to study the ecology of marine birds - Wildlife Service

Composition of Employees:

Scientists and Engineers: 10
Guest Scientists: 2
Graduate Students: 11

Services Offered in:

English
French

Biron Engineering Ltd.

Biron Engineering Ltd.
1710 Hickey Road
Building 5, Suite 101
Saint John, New Brunswick
E2J 3S6

Contact: Ken Biron, BASc., MASc, P.Eng.
Position: President

Tel.: (506) 696-1440
Fax: (506) 696-1442

Mandate:

Biron Engineering Ltd. provides research for optimization of equipment and systems performance; enhancement of nuclear technology and electrical power plant performance; development of new operational procedures and techniques; reasons for cost overruns and project delays in order to assign responsibilities and costs in litigation cases; and solutions to mathematical problems.

Main Categories of Applied Research and Development Activities Offered:

Computer Science
Engineering
Mathematics
Nuclear Energy
Physics
Statistics
Technology Management

Expertise in Applied Research and Development:

- Application of computer technology for systems and plant control
- Instrument calibration and calibration lab development
- Research into radiation monitoring techniques
- Research into nuclear reactor safety and control techniques and procedures
- Solutions to mathematical equations
- Introduction of non linear feedback effects into simultaneous linear differential equations
- Nuclear fuel cycle safeguards
- Research into alternative methods to organize and manage megaprojects

Equipment/Facilities Used:

- Joint owner of the 160,000 square foot Maritime Opportunity Centre in Saint John, New Brunswick which has
  - laboratory facilities
  - fume hoods
  - walk-in refrigerator units for sample storage
  - back-up electrical power facilities
  - compressed air supplies

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies
- Temporary transfer of staff to laboratories

Major Affiliations:

- Canadian Standards Association Committee Member
- Member of Canadian Nuclear Society
- Member of Canadian Nuclear Association
- Member of American Nuclear Association
- Member of Professional Engineers of New Brunswick
- Joint owner of the Maritime Opportunity Centre
- CANDU Nuclear Power Plant Owners Group Data Base

Collaborative Research Projects:

- Operation - complexity research study at Bruce A Nuclear Power Plant - Ontario Hydro, Atomic Energy of Canada and Canatom
- Research into development of a nuclear power plant operator certification program utilizing a power plant simulator - Atomic Energy Control Board and Human Factors North
- Research into the safety of Ontario Hydro's nuclear power facilities - Ontario Nuclear Safety Review Board
- Research into degradations and repairs of fuel bundle counter collimator inserts - Atomic Energy Control Board and International Atomic Energy Agency
- Critical safety parameter utilization - New Brunswick Electrical Power Commission

Composition of Employees:

Scientists and Engineers: 2
Technicians and Technical Specialists: 2

Services Offered in:

English
French

Cadmi Microelectronics/Microelectronique Inc. (U de M)

Cadmi Microelectronics/Microelectronique Inc.
(U de M)
Édifice Rémi-Rossignol
Université de Moncton
Moncton, New Brunswick
E1A 3E9

Tel.: (800) 561-4333
Fax: (506) 858-4075

Contact: Yves Doucet
Position: Assistant Director

Tel.: (506) 858-4153

Head Office: MTC/Cadmi Inc.
NBCC Moncton
1234 Mountain Road
Box 2100, Station "A"
Moncton, New Brunswick
E1C 8H9

Contact: John Hanusiak

Tel.: 1-800-561-4004
(506) 856-2247
Fax: (506) 856-2806

Mandate:

Cadmi Microelectronics is a research and development centre that was created through grants from the federal and provincial governments. Its mandate is the transfer of leading-edge technologies, in particular electronics and microelectronics, to small and medium sized businesses. This transfer takes two forms: research and development, and design. Cadmi/Université de Moncton also has as its mission to help individuals develop an idea and make it concrete, and subsequently to help them technically in setting up their business to market their product (idea).

Cadmi is active in software development, design of microelectronic circuits, integration of computers in the control of manufacturing process, and in technical assistance in starting up a company. In addition, Cadmi offers a stereolithography service to interested small and medium-sized businesses.

Main Categories of Applied Research and Development Activities Offered:

Computer Science
Electronics
Engineering
Mathematics
Robotics
Stereolithography
Telecommunications

Expertise in Applied Research and Development:

- Help develop an idea or adapt to leading edge technologies
- Product research and development starting from an idea or an existing product
- Software development and electronic circuits design
- Stereolithography services to generate three dimensional models from data

Equipment/Facilities Used:

- Electronic software/hardware: (1) ASIC design, (2) pad design, (3) surface mount technology (SMT)
- Software: (1) protocol analyzers, (2) ICE for a variety of microprocessors, (3) C compiler
- Simulation: (1) statistical software, (2) graphic design software rendering
- Mechanical: (1) computer design (Pro Engineer, Silicon Graphics), (2) stereolithography, machine injection

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies

Major Affiliations:

- Cadmi/Université de Moncton is a research and development centre that is part of a network of centres across the province of New Brunswick
- There are two microelectronic centres, which are linked by a modern, fast communications network that allows them to interact
- The network also offers access to various technological databases in centres and in industry

Collaborative Research Projects:

- Development of an instrument to measure glasses frames
- Development of an instrument for digital cutting of lenses for glasses
- Development of a home alarm system
- Development of a lottery terminal
- Development of a data acquisition system for fish plants
- Development of a networked system of industrial scales
- Development of a control system for lobster cooking

Composition of Employees:

Scientists and Engineers: 8
Technicians and Technical Specialists: 3
Professors from Engineering: 23
Graduate Students: 2

Services Offered in:

English
French

Cadmi Microelectronics/Microelectronique Inc. (UNB)

Cadmi Microelectronics/Microelectronique
Inc.(UNB)
P.O. Box 4400, UNB Campus
H105, Head Hall
Fredericton, New Brunswick
E3B 5A3

Contact: J. Eugene Lewis
Position: Director

Tel.: (506) 453-3556
Fax: (506) 453-3589

Mandate:

Cadmi Microelectronics Inc. is a technology centre whose function is to provide high-level microelectronics technology transfer to New Brunswick industry. Cadmi specializes in analyzing industrial problems, and in the design of custom circuits and systems for industrial processing and product developments.

Main Categories of Applied Research and Development Activities Offered:

Electronics
Engineering

Expertise in Applied Research and Development:

- Computer aided design and simulation of microelectronic circuits on high performance workstations using state-of-the-art software
- Custom software development
- Design of instrumentation systems for quality control and monitoring
- Microelectronics design and implementation
- Design of professional quality printed circuit boards using the latest in CAD systems and turn-key services for their manufacture
- Design of very large scale integrated VLSI circuits
- Assistance with preparation of proposals for government support of microelectronics applications to industry

Equipment/Facilities Used:

- Comprehensive inventory of laboratory development, testing and measuring equipment
- Printed Circuit Board layout facility/ PCB assembly facility
- Computer aided design, modelling and simulation facility on high performance workstations

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Use of facilities

Major Affiliations:

- Cadmi Microelectronique Inc., Moncton, N.B.
- Manufacturing Technology Centre, UNB, Fredericton, N.B.

Collaborative Research Projects:

- Design of a furnace controller for Amron Ltd. - The Manufacturing Technology Centre, UNB
- Design of an inventory control system for Atlantic Inventory Management Systems Ltd. - The Manufacturing Technology Centre, UNB

Composition of Employees:

Scientists and Engineers: 4
Technicians and Technical Specialists: 2

Services Offered in:

English
French

Centre of Mathematics and Statistics (U de M)

Centre of Mathematic and Statistics
Université de Moncton
Moncton, New Brunswick
E1A 3E9

Contact: Dr. François Söler
Position: Chairman

Tel.: (506) 858-4298
Fax: (506) 858-4541

Mandate:

The mandate of the Centre of Mathematics and Statistics includes teaching and research in mathematics and statistics, mathematical computations, advanced statistics, support on remodelizations, data analysis with computers, and statistical data analysis and statistical reports.

Main Categories of Applied Research and Development Activities Offered:

Mathematics
Statistics

Expertise in Applied Research and Development:

- Applied statistics and mathematics

Equipment/Facilities Used:

- Resource center in applied mathematics and statistics
- Computers, software

Major Affiliation:

- VAX computer in the Engineering School (U de M)
- Université de Moncton's library

Collaborative Research Projects:

- Combining regional statistical information to increase the precision of river flow frequency estimation - National Institute of Scientific Research (NISR) and ALCAN
- Development of a computer program estimating the probability of flood flows - NISR and Hydro Quebec
- Statistical estimation of missing values in river flow measurement - NSERC, NISR and Hydro Quebec
- Statistical analysis of working habits - NSERC, Bell Canada and Université de Moncton

Composition of Employees:

Scientists and Engineers: 5

Services Offered in:

English
French

Computer Science Department (U de M)

Computer Science Department
Université de Moncton
Moncton, New Brunswick
E1A 3E9

Contact: Mariana Kant, Ph. D.
Position: Director

Tel.: (506) 858-4552
Fax: (506) 858-4541

Mandate:

Computer science and its applications.

Main Categories of Applied Research and Development Activities Offered:

Computer Science
Telecommunications

Expertise in Applied Research and Development:

- Design and research of new architectures of the computer
- Multiprocessing, parallel processing, parallel algorithms
- Real-time processing, numerical methods, infography
- Networks, operative systems, data bases, computational biology
- Artificial intelligence, knowledge bases, application of numerical methods in optics, computer assisted learning
- Natural languages processing (generative and translative with computer)
- Logic programming, compilative, programming languages.

Equipment/Facilities Used:

- Micro-computers
- Mini-computers
- Computer networks

Interactions with Industry:

- Informal interactions
- Contracts to companies
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies

Collaborative Research Projects:

- A prolog - compiler (it is free for research and can be licensed for industrial applications)
- Design of new computer architecture
- Generation of supertrees in taxonomy
- Data base for the student registration of the Computer Science Department
- Data base of participants and their projects for Science Fair New Brunswick, 1989, 1990
- A tool for developing protocols from communication service specifications
- A machine translation program
- A text generation program
- A program to help in the construction of argumentative discourse
- A program to manage the renting and reservations of rooms in a hotel
- A program to manage stock and billing
- A program to calculate thickness and weights of eyeglasses
- A program to calculate the positions of the cutting diamond of eyeglasses

Composition of Employees:

Scientists and Engineers: 6

Services Offered in:

English
French
Romanian
Arabic

Computing Resources

Computing Resources
P.O. Box 69
Dorchester, New Brunswick
E0A 1M0

Tel.: (506) 379-2421
Fax: (506) 379-2422

Contact: Andrew Jennings
Position: President

Tel.: (506) 852-0023

Mandate:

Application of computers in business research, with a focus on transportation and distribution activities - analysis and design of targeted systems.

Main Categories of Applied Research and Development Activities Offered:

Computer Science

Expertise in Applied Research and Development:

- Transportation costing models
- Freight auditing systems

Interactions with Industry:

- Contracts from companies
- Collaborative projects
- Consulting services

Collaborative Research Projects:

- Truck costing system - Atlantic Provinces Transportation Commission
- Highway distance guide - Atlantic Provinces Transportation Commission
- Freight auditing system - Freight Audit Service

Composition of Employees:

Technicians and Technical Specialists: 1

Services Offered in:

English

Custom Laboratories Ltd.

Custom Laboratories Ltd.
P.O. Box 520
920 Bridge Street
Bathurst, New Brunswick
E2A 3Z4

Contact: Robert Stairs
Position: President

Tel.: (506) 546-4779
Fax: (506) 546-4088

Mandate:

To provide service to the mineral exploration and mining industries.

Main Categories of Applied Research and Development Activities Offered:

Geology
Mining

Expertise in Applied Research and Development:

- Analytical laboratory designed specifically for minerals analyses

Equipment/Facilities Used:

- Fire assay unit
- Varian Spect 10 AA with vapour generation pump
- Spectrophotometer
- Complete analytical laboratory design for minerals analyses

Interactions with Industry:

- Contracts from companies
- Consulting services

Composition of Employees:

Technicians and Technical Specialists: 2
Chemists: 1

Services Offered in:

English
French

DMR Group Inc.

DMR Group Inc.
Carleton Place, Suite 830
520 King Street
Fredericton, New Brunswick
E3B 6G3

Contact: John Brant
Position: Managing Director

Tel.: (506) 458-8066
Fax: (506) 458-9369

DMR Group Inc.
1 Brunswick Square, Suite 1602
Saint John, New Brunswick
E2L 4V1

Contact: Jim Hudson
Position: Managing Director

Tel.: (506) 634-1575
Fax: (506) 648-9970

Mandate:

DMR Group Inc. is an information management and technology consulting firm and is the largest of its kind in Canada. Operating internationally, DMR has 37 offices in North America, Europe and Australia providing the services of some 2,200 professionals in all fields of information management.

Main Categories of Applied Research and Development Activities Offered:

Technology Management
Methodologies and Tools

Expertise in Applied Research and Development:

- Project management
- Technology transfer
- Systems analysis
- Computer software development
- Information systems
- Impact assessment
- Telecommunications and networking

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies

Major Affiliations:

- DMR Group Inc. (Montreal)
- U.S. Division - DMR Group, Inc.
- European Division - DMR Group B.V. (Netherlands)
  - DMR Gruppe AG (Switzerland)
  - DMR Group (Belgium) S.A. - N.V.
  - DMR Gruppe GmbH (Germany)
  - DMR Group Limited (England)
- Australian Division - DMR Group Australia Pty. Ltd.

Collaborative Research Projects:

- 1986-87 Integration of data, text, voice and image - Five N.B. organizations participated in DMR's nation wide study
- One DMR N.B. consultant was involved in the research project
- 1991 - Three DMR N.B. consultants participating in re-engineering DMR's methodology and tools for use in a multibillion dollar aerospace company in the Northwest U.S. The work is being done out of Fredericton

Composition of Employees:

Technology Consultants: 6
Analysts: 20
Programmers: 10

Services Offered in:

English
French

E^3 Inc. (Electronically Enhanced Education)

E^3 Inc. (Electronically Enhanced Education)
117 York Street, Suite 304
Fredericton, New Brunswick
E3B 3N6

Contact: George Doherty
Position: President

Tel.: (506) 452-0232
Fax: (506) 452-9984

Mandate:

E^3 Inc. (Electronically Enhanced Education) provides multimedia software development for the training and educational sectors. E^3 Inc. also specializes in design/development of interactive courseware in a fully DIGITAL environment.

Main Categories of Applied Research and Development Activities Offered:

Computer Science
Learning Technologies

Expertise in Applied Research and Development:

- Authoring languages and systems
- AI/ES
- Multimedia integration

Equipment/Facilities Used:

- Developers of DVI (Digital Video - Interactive)
- Applications for learning systems

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Use of facilities

Major Affiliations:

- IBM - Technologies - IBM Imaging Lab (Toronto)

Collaborative Research Projects:

- Integration of DVI and the CAST authoring language

Composition of Employees:

Technicians and Technical Specialists: 9

Services Offered in:

English

Engineering Department (U de M)

Engineering Department
Université de Moncton
Moncton, New Brunswick
E1A 3E9

Tel.: (506) 858-4300
Fax: (506) 858-4082

Contact: Dr. Jean-René Longval
Position: Assistant Director

Tel.: (506) 858-4303

Mandate:

The Engineering Department at the Université de Moncton attracts the largest number of contracts of research and development on the campus. Some 320 undergraduate students and 22 graduate students undertake courses, projects and research activities in the fields of civil engineering, industrial and mechanical (and shortly electrical) under the supervision of 22 professors, 7 technicians and research assistants.

Main Categories of Applied Research and Development Activities Offered:

Advanced Materials
Computer Science
Electronics
Engineering
Geology
Geomatics
Mathematics
Sensors and Vision
Statistics
Technology Management
Telecommunications
Wind Engineering/ Solar Energy

Expertise in Applied Research and Development:

- Statistical modelling: SAS
- Digital signal processing: IMSL
- CAD/CAM: unigraphics, Cadkey, Gibbs
- Energy conversion
- Structures
- F.E.A.
- Robotics and vision systems
- Machining (CNC, CAM)
- Stereolithography

Equipment/Facilities Used:

- Industrial robots
- Industrial CNC Machines
- Wind tunnel
- Stereolithography
- CAD/CAM laboratory

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services

Major Affiliations:

- Networks: CAN-NET
  CAN-MATE

Collaborative Research Projects:

- Several individual projects with NSERC and NRC
- Energy conversion - N.B. Power
- Composites materials - Quebec

Composition of Employees:

Scientists and Engineers: 22
Technicians and Technical Specialists: 7
Guest Scientists: 2
Graduate Students: 20

Services Offered in:

English
French

Environmental Science Research Centre (U de M)

Environmental Science Research Centre
Faculty of Science
Université de Moncton
Moncton, New Brunswick
E1A 3E9

Tel.: (506) 858-4333
Fax: (506) 858-4541

Contact: Louis LaPierre
Position: Director

Tel.: (506) 858-4152

Mandate:

Research is done in various fields related to the environment. The objective is to conduct research on environmental issues. Issues range from environmental contaminants, multi-material recycling and developing sustainable development policies.

Main Categories of Applied Research and Development Activities Offered:

Advanced Materials
Agriculture
Aquaculture
Biology
Chemistry
Computer Science
Engineering
Mathematics
Statistics

Expertise in Applied Research and Development:

- Chemical analysis
- Molecular biochemistry
- Aquaculture
- Marine biology
- Hydrology
- Entomology
- Civil engineering
- Ecology

Equipment/Facilities Used:

- An automated gaschromatagraphy for chemical analysis and modelling
- Main frame computer capabilities

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies
- Temporary transfer of staff to laboratories

Major Affiliations:

- Collaborative projects with other universities
- Government agencies such as:
  - Environment N.B., Environment Canada
  - Agriculture N.B., Agriculture Canada
  - Economic Development and Tourism, ISTC and ACOA
  - Research projects with the NSERG

Collaborative Research Projects:

- Developing analytical tools to identify organic or inorganic contaminants within any environment - NSERC and the Department of Environment
- Study of global composting activities - ISTC and the Department of Economic Development and Tourism
- Developing alternatives to insecticides - Agriculture Canada
- Study of oyster monitoring sites - the Departments of Fisheries and Economic Development and Tourism
- Researching of water quality parameters to restore a brook - Department of Fisheries and Oceans Canada
- Study of stress points of various materials used in dam construction - Department of Energy Canada and Hydro Quebec

Composition of Employees:

Scientists and Engineers: 5
Technicians and Technical Specialists: 8
Guest Scientists: 2
Professors: 15
Graduate Students: 18

Services Offered in:

English
French

FENCO Shawinigan Engineering (1991) Ltd.

FENCO Shawinigan Engineering (1991) Ltd.
P.O. Box 1238
Fredericton, New Brunswick
E3B 5C8

Contact: S. Reid Giffin
Position: Manager

Tel.: (506) 459-2645
Fax: (506) 459-4175

Mandate:

FENCO Shawinigan Engineering (1991) Ltd. provides comprehensive engineering service to government and industry including studies, investigations, planning, design, project management, construction supervision, scheduling, and cost control. Main emphasis on highways, bridges, structures, marine, municipal services, building design, and remedial works.

Main Categories of Applied Research and Development Activities Offered:

Engineering

Expertise in Applied Research and Development:

- Highway design
- Bridge design
- Structures
- Marine facilities
- Municipal services

Equipment/Facilities Used:

- CAD for highways, bridges and structures

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts from government
- Consulting services
- Temporary transfer of staff to companies

Major Affiliations:

- Member of SNC-Lavalin group with over 6000 staff

Collaborative Research Projects:

- Truck origin-destination study - PEI Dept. of P.W.&T.
- Flood level mapping - N.B. Dept. of Environment
- Flood control measures - N.B. Dept. of Environment
- Concrete deck rehabilitation - Saint John Harbour Bridge Authority

Composition of Employees:

Scientists and Engineers: 7
Technicians and Technical Specialists: 11

Services Offered in:

English

Fiander-Good Associates Ltd.

Fiander-Good Associates Ltd.
Suite 200, 335 Queen Street
P.O. Box 207
Fredericton, New Brunswick
E3B 1B1

Contact: Allan D. Fiander, M.Sc., P.Eng.
Position: President

Tel.: (506) 458-8455
Fax: (506) 452-2729

Mandate:

Fiander-Good Associates Ltd. has earned a solid reputation in transportation, economics, market research, and urban and regional planning. Their applied research experience and capabilities relate primarily to the transportation component of their operations, however, applied statistical research has been utilized on a broad cross section of industrial related activities.

Main Categories of Applied Research and Development Activities Offered:

Engineering
Forestry
Geomatics
Statistics
Transportation

Expertise in Applied Research and Development:

- Transportation research and analysis
- Transport energy research and analysis
- Regulatory board expert testimonies
- Research on special transportation needs for the handicapped
- Research and simulation of large vehicles
- Accident studies
- Quality improvement research
- Research on recycling and composting options for New Brunswick
- Assessment of role of refuse derived fuel in NB's solid waste management
- Technical evaluation of driver evaluation and education programs for the disabled in N.B.

Equipment/Facilities Used:

- Library material
- Project material
- Service IBM Compatible 386/486 PC's
- CADD and GIS capabilities
- Service design and data analysis software packages

Interactions with Industry:

- Informal interactions
- Contracts from government
- Collaborative projects
- Consulting services

Collaborative Research Projects:

- Effect of heavy vehicle lengths on safety and traffic operation on two lane, rural roads - Dept. of Civil Engineering, UNB

Composition of Employees:

Scientists and Engineers: 6
Technicians and Technical Specialists: 6
Forester: 1
Economists: 2

Services Offered in:

English
French

Fire Science Centre (UNB)

Fire Science Centre
University of New Brunswick
P.O. Box 4400
Fredericton, New Brunswick
E3B 5A3

Contact: J.E.S. Venart
Position: Director

Tel.: (506) 453-4509/4513
Fax: (506) 453-5025

Mandate:

The University of New Brunswick Fire Science Centre was established in 1967 to provide a focus for interdisciplinary research in fire-related subjects. The Centre has three major objectives: (i) to conduct research in the areas of natural and accidental fires; (ii) to educate graduate and undergraduate students in fire science; and (iii) to cooperate with government agencies and industrial organizations to ensure technical transfer and application of fire science research information, and, in addition, to conduct various cooperative research projects that could not be easily done singly.

Main Categories of Applied Research and Development Activities Offered:

Advanced materials
Chemistry
Engineering
Explosions
Fire technology
Forestry
LDA and aerodynamic studies
Pressure liquified gases
Suppression

Expertise in Applied Research and Development:

- Computational fluid dynamic and heat transfer studies - HVAC
- Experimental flow visualization and measurements using water tunnel and flow channels
- Fire testing, time to ignitions, and fire tunnel tests
- Fire retardancy
- Pressure liquified gas simulator experiments
- Pressure relief device evaluation

Equipment/Facilities Used:

- Fiber optic LDA
- 4 beam laser doppler aninometer
- Video cameras/frame graphers/analyzers
- Flow visualization water channel/water tunnel
- 40L thermohydraulic pressure liquified gas vessel
- Digital imaging systems and software
- Fire tunnel
- ISO fire ignitability tester

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies
- Temporary transfer of staff to laboratories
- Use of facilities

Major Affiliations:

- National Fire Laboratory access
- NIST "Fire DOC" data base
- CISTI through UNB Library

Collaborative Research Projects:

- Liquid propane tank car thermal testing and modeling - Transport Canada (Transportation Development Centre), and NSERC
- Mixing processes in residual fuel oil storage tanks - Energy System Associates (Electric Power Research Institute (US))
- Testing of emergency shut-off valve-protected LPG rail tanker loading systems - Irving Oil, Speedy Propane, Transport Canada (Transportation Dangerous Goods Directorate) Road Sea Transport Ltd., Canadian Forces Base Gagetown, Arthur D. Little Ltd., Cambridge, Mass., and Department of Transportation
- Combustion research - New Brunswick Electric Power Commission and NSERC
- The use of computational fluid dynamic simulation in multi compartment fire assessment - NRC (National Fire Laboratory)
- Fire-testing in ships' accomodation quarters - Professional Loss Control, NRC (National Fire Laboratory), and Department of National Defense
- Flammability of plastic materials - Dupont, and NSERC
- Modeling of smoke movement in corridors - Society for Fire Protection Engineers, and NSERC
- Aqueous lithium salt blanket thermal property data - Canadian Fusion Fuels Technology Project
- Thermal properties of new refrigerants - Dupont, and NSERC
- Boiling on inclined surfaces - Dupont, Canadian International Development Agency, and NSERC
- Experimental flows and heat transfer 350 MWe: Thermal Power Condenser - New Brunswick Electric Power Commission (Coleson Cove Generating Station), and NSERC
- Flow visualization and computational study - Irving Pulp and Paper
- Heating and ventilation computational study - Point Lapreau Nuclear Generating Station, (New Brunswick Electric Power Commission)
- Water spray/water fog fire interaction modeling - NRC (National Fire Laboratory), Department of National Defense, and American Society of Heating, Refrigeration and Airconditioning Engineers

Composition of Employees:

Scientists and Engineers: 2
Technicians and Technical Specialists: 2
Guest Scientists: 2
Graduate Students: 12

Services Offered in:

English

Food Research Centre (U de M)

Food Research Centre
Université de Moncton
Moncton, New Brunswick
E1A 3E9

Contact: Dr. Auréa Cormier
Position: Director

Tel.: (506) 858-4284
Fax: (506) 858-4540

Mandate:

The Food Research Centre is devoted to food research and provides services to the food industry. Its aim is to be of service to processors by providing research and development of new products . The Food Research Centre also offers chemical, microbiological and sensory analysis designed to establish the quality of food products.

Main Categories of Applied Research and Development Activities Offered:

Agriculture
Fisheries
Food Science and Technology

Expertise in Applied Research and Development:

- Program of laboratory analysis in chemistry and microbiology and sensory assessment
- Development of new products and new processes
- Heat penetration studies (canning)
- Studies of shelf life of food products
- Assessment of production costs of food companies
- Refrigeration and freezing of foods
- Assessment of processing and sanitation procedures
- Organization of seminars and conferences
- Personnel training

Equipment/Facilities Used:

- Product development, microbiology, and chemistry laboratories
- Sensory evaluation room
- Refrigeration and freezer rooms
- Autoclave for heat penetration studies
- Controlled temperature chamber and incubator for shelf life study
- Library
- Computerized information service

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts to companies
- Collaborative projects
- Use of facilities

Major Affiliations:

- Université de Moncton
- Agriculture Canada, Kentville

Collaborative Research Projects:

- Freeze-drying of shrimp - Research and Productivity Council (RPC)
- Note: In 1990-91, we carried out research for 32 privately-owned companies and 18 organizations and agencies

Composition of Employees:

Scientists and Engineers: 8
Technicians and Technical Specialists: 3

Services Offered in:

English
French

Force/Robak Associates Ltd.

Force/Robak Associates Ltd.
P.O. Box 1146, Station "A"
Fredericton, New Brunswick
E3B 5C2

Contact: Ted Robak
Position: President

Tel.: (506) 458-9676
Fax: (506) 452-2141

Mandate:

FRA provides research and development services in decision support technologies, with special emphasis on applications in the resource sector, particularly in the areas of analysis, planning and control of operations.

Main Categories of Applied Research and Development Activities Offered:

Forestry
Technology Management

Expertise in Applied Research and Development:

- Information system needs - analysis and design
- DSS analysis, design, development
- Forest resources and operations management
- Operations research

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services

Major Affiliations:

- Collaborations with University of New Brunswick researchers

Collaborative Research Projects:

- Integrated forestry planning system - UNB (ARMS Group) and Universal Systems
- Forestry planning system - Agricultural University of Sweden, Mellanskog Forestry Cooperative
- Forest operations DSS - Forest Industry Organization of Thailand, Chulalong Korn University

Composition of Employees:

Scientists and Engineers: 2

Services Offered in:

English
French
Swedish

Forestry Canada - Maritime Region

Forestry Canada - Maritime Region
P.O. Box 4000
Fredericton, New Brunswick
E3B 5P7

Tel.: (506) 452-3500

Contact: Gerrit Van Raalte
Position: Director - Technical Services

Tel.: (506) 452-3505
Fax: (506) 452-3140

Mandate:

Forestry Canada provides research for projects in integrated forest pest management, forest genetics, air pollution and climate change, forest regeneration and plantation management, nursery practices, hardwood silviculture, and forest management and decision support systems.

Main Categories of Applied Research and Development Activities Offered:

Bio-technical
Biology
Chemistry
Computer Science
Forestry

Expertise in Applied Research and Development:

- Forest insect and disease condition and damage appraisal surveys
- Reforestation techniques
- Decision support systems for forest management incorporating models and remote sensing
- Forestry nursery practices
- Seed orchard/tree improvement advisory service
- Forest genetics biotechnology (somatic embryogenesis)

Equipment/Facilities Used:

- Soil and plant tissue analysis laboratory
- State of the art research greenhouses and growth chambers
- Science library
- Acadia forest experimental area

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts to companies
- Collaborative projects
- Consulting services
- Temporary transfer of staff to laboratories
- Use of facilities

Major Affiliations:

- Forestry Canada has 7 other research establishments across Canada
- Forestry Canada has collaborative arrangements with NRC, PAPRICAN, FERIC, and RPC
- Forestry Canada - Maritime Region is involved in all major forest research networks in Canada
- Forestry Canada - Maritime Region has working arrangements with universities in Canada, United States, and Europe

Collaborative Research Projects:

- Tissue culture of conifers - J.D. Irving
- Development of BT for control of spruce budworm - Forest Protection Limited
- Impacts of whole tree harvesting on site quality - J.D. Irving and Scott Paper
- Development of alternatives for forest pest control - Abbott Labs, Chemagro, Mycogen
- Development of tree nursery technologies - Hoechst, Celanese Corp.

Composition of Employees:

Scientists and Engineers: 22
Technicians and Technical Specialists: 60

Services Offered in:

English
French

Fundy Engineering & Consulting Ltd.

Fundy Engineering & Consulting Ltd.
P.O. Box 6626
57 Carleton Street
Saint John, New Brunswick
E2l 4S1

Contact: Peter McKelvey, P.Eng.
Position: President

Tel.: (506) 635-1566
Fax: (506) 635-0206

Mandate:

Fundy Engineering & Consulting Ltd. offers services in geotechnical, environmental and bio-resource industry engineering. Research and development work includes fishing gear design and development, agriculture machinery development, aquaculture equipment and facilities, and processing of agriculture products.

Main Categories of Applied Research and Development Activities Offered:

Agriculture
Aquaculture
Engineering
Fisheries
Geology

Expertise in Applied Research and Development:

- Fishing gear development
- Agricultural machinery development
- Agricultural systems development
- Aquaculture equipment design
- Aquaculture site investigations
- Aquaculture systems design
- Hydrogeological investigations

Equipment/Facilities Used:

- Computer aided design and drafting

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts from government
- Collaborative projects
- Consulting services

Major Affiliations:

- Collaboration with Atlantic Agri Foods Ltd.
- Joint projects with Agriculture Canada

Collaborative Research Projects:

- Development of interface roller - Agriculture Canada
- Design of potato stone separator - Agriculture Canada
- Field evaluation of interface roller

Composition of Employees:

Scientists and Engineers: 2
Technicians and Technical Specialists: 4

Services Offered in:

English
French

Gemtec Limited

Gemtec Limited
Comp. 16
55 Whiting Road
Fredericton, New Brunswick
E3B 5Y5

Contact: D.P. DeMerchant
Position: President

Tel.: (506) 453-1025
Fax: (506) 453-9470

Mandate:

The mandate of Gemtec Limited is to provide engineering consulting, geotechnical services, hydrogeology and environmental protection, water resource management, and material engineering and research.

Main Categories of Applied Research and Development Activities Offered:

Engineering
Geology

Expertise in Applied Research and Development:

- Concrete materials
- Asphalt concrete materials
- Bio remediation of contaminated soil

Equipment/Facilities Used:

- Complete CSA certified concrete materials laboratory
- 38°C controlled temperature rooms for alkali-aggregate testing
- Complete soil testing laboratories
- Back pressure permeameters/triaxial test equipment

Interactions with Industry:

- Contracts from companies
- Contracts from government
- Collaborative projects
- Consulting services

Collaborative Research Projects:

- Alkali-aggregate research - CANMET and NB Dept. of Transportation

Composition of Employees:

Scientists and Engineers: 6
Technicians and Technical Specialists: 15
Guest Scientists: 3

Services Offered in:

English
French

Geocon (1991) Inc.

Geocon (1991) Inc.
500 Beaverbrook Ct.
Fredericton, New Brunswick
E3B 5X4

Contact: Ken Peck
Position: Regional Manager

Tel.: (506) 459-2668
Fax: (506) 459-4175

Mandate:

Geocon provides consulting engineering services related to geotechnical engineering, geological engineering and hydrogeology, plus quality control for construction, materials testing and inspection and project management.

Main Categories of Applied Research and Development Activities Offered:

Engineering
Geology

Expertise in Applied Research and Development:

- Geotechnical and foundation engineering
- Geological engineering, slope stabilization
- Geological resource evaluation
- Hydrogeological evaluation
- Environmental evaluation and impact assessment
- Materials testing, concrete, asphalt, earthworks
- Site remediation
- Groundwater resources
- Environmental auditing

Equipment/Facilities Used:

- Fully equipped geotechnical laboratory
- Fully equipped concrete testing facility, CSA certified
- Field testing laboratory
- Fully computerized service with specialized software

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts from government
- Consulting services
- Temporary transfer of staff to companies
- Use of facilities

Major Affiliations:

- SNC-Lavalin Group of Companies
- Fenco Shawinigan
- Warnock Hersey
- Cowan Lavalin
- National Boring and Sounding (NBS)

Composition of Employees:

Scientists and Engineers: 3
Technicians and Technical Specialists: 4

Services Offered in:

English
French

Geoplan Consultants Inc.

Geoplan Consultants Inc.
115 Prospect St. West
Fredericton, New Brunswick
E3B 2T7

Contact: E.H. Smith, P.Eng. N.B.L.S.
Position: President

Tel.: (506) 452-9775
Fax: (506) 450-4838

Mandate:

Geoplan Consultants Inc. is an engineering consulting firm specializing in geomatics (GIS Surveying), transportation engineering/design, transportation planning, and economics.

Main Categories of Applied Research and Development Activities Offered:

Engineering
Geomatics

Expertise in Applied Research and Development:

- Surveying
- Transportation
- GIS
- Economic analysis

Equipment/Facilities Used:

- Sun Sparc Station 2
- Digitizing facilities
- CARIS GIS

Interactions with Industry:

- Informal interactions
- Contracts from government
- Consulting services

Collaborative Research Projects:

- Research into the use of digital terrain models - Cabot Group, USL, and NBGIC

Composition of Employees:

Scientists and Engineers: 5
Economist: 1

Services Offered in:

English

Greystone Energy Systems Inc.

Greystone Energy Systems Inc.
150 English Drive
Moncton, New Brunswick
E1E 4G7

Contact: William A. Robblee
Position: President

Tel.: (506) 853-3057
Fax: (506) 853-6014

Mandate:

Greystone Energy Systems Inc. has an established reputation throughout North America and Southeast Asia that has evolved from its rigid adherence to a quality management program. The company is certified under CSA Z299 and ISO 9000 quality assurance programs. Greystone's specialization permits them to offer this crucial part of an HVAC control system, in the widest selection, all rigidly field tested and with rapid order fulfilment.

Main Categories of Applied Research and Development Activities Offered:

HVAC sensors

Expertise in Applied Research and Development:

- Temperature, temperature sensors, temperature transmitters
- Humidity, humidity transducers
- Pressure, gauge pressure transducers, differential pressure transducers, static pressure transducers, watt transducers, wind-speed transducers
- Interface, analog to pneumatic (I/P)
- Custom boards for a process control
- Actuators, valves
- Current switches, air flow stations, power supplies
- Multiplexers, current
- Proportional resistive output boards
- Pulse width modulated boards
- Thermocouples

Equipment/Facilities Used:

- 12,000 sq. ft. research and development and manufacturing facility
- Humidity/temperature chamber
- Various meters

Interactions with Industry:

- Contracts from companies
- Contracts to companies
- Consulting services

Composition of Employees:

Technicians and Technical Specialists: 2

Services Offered in:

English
French

Huntsman Marine Science Centre

Huntsman Marine Science Centre
Brandy Cove Rd.
St. Andrews, New Brunswick
E0G 2X0

Contact: Dr. John H. Allen
Position: Executive Director

Tel.: (506) 529-8895
Fax: (506) 529-4337

Mandate:

Through research and education, the Huntsman Marine Science Centre enhances knowledge and provides the leadership necessary to achieve understanding and effective management of the coastal environment. The mandate of the HMSC is to promote the advancement of knowledge in marine sciences, to develop and transfer relevant science and technology to the private sector, to provide expertise and services in the identification and classification of fishes and other aquatic organisms through the Atlantic Reference Centre, to contribute to the training and education of future scientists and technologists by providing unique research and teaching facilities, and to pioneer marine education for elementary and secondary students, teachers and the general public.

Main Categories of Applied Research and Development Activities Offered:

Aquaculture
Bio-technical
Biology
Engineering
Fisheries
Statistics

Expertise in Applied Research and Development:

- Environmental impact studies
- Sea cage trials; feed trials
- Salmonid research into genetics and broodstock development
- Fish disease research
- Environmental monitoring
- Environmental sensitivity mapping
- Baseline studies
- Technical training
- Arctic char licensing agreements
- Coastal and aquaculture engineering
- Aquatic taxonomic services

Equipment/Facilities Used:

- Fish hatchery, numerous fish rearing/holding tanks, aquaculture seacages; fish raceways, wet laboratory with environmentally controlled tanks, dive centre
- A variety of research and teaching laboratories with fresh and salt water; radioisotope lab, modern microscopes, aquaria, balances, scintillation counter etc.
- 12.8 M. research vessel and numerous smaller boats
- On-site accommodation facilities, meeting facilities
- A very extensive zoological/botanical museum reference collection of aquatic fishes, invertebrates and marine algae from the North Atlantic Ocean at the A.R.C.
- 10 PC's and direct computer links with DFO (St. Andrews Biological Station) and the Bedford Institute of Oceanography (Halifax)

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies
- Temporary transfer of staff to laboratories
- Use of facilities

Major Affiliations:

- A non-profit consortium of 13 universities, three government departments, numerous corporations and the public
- iNet 2000
- MUSE database system

Collaborative Research Projects:

- Research on engineering and hydrodynamic aspect of enclosures for fish culture - IDP Ottawa, and National Research Council (RPC)
- Salmon genetics study/biotechnology strain. - The Salmon Research Centre
- Physiological differences between Atlantic Salmon and Arctic Char with respect to oxygen utilization and growth - Sea Farms Canada
- Salmon nutrient studies - Moore-Clarke Canada Ltd.
- Population dynamics of sea ducks in Passamaquoddy Bay - Department of Natural Resources and Energy
- Potential for stripped bass as a species for cage culture production - NB Department of Fisheries and Aquaculture
- Environmental effect of salmon cage farming of the benthic community structures, diversity and productivity - NB Department of Fisheries and Oceans
- Impact of sea lice on the aquaculture industry - NB Salmon Growers Association, Industry Science and Technology

Composition of Employees:

Scientists and Engineers: 9
Technicians and Technical Specialists: 11
Guest Scientists: 12
Graduate Students: 20

Services Offered in:

English

Industrial Research Chair in Pulping Technology (Incutech, UNB)

Industrial Research Chair in Pulping Technology
Incutech Centre
P.O. Box 69000
McKay Drive, UNB Campus
Fredericton, New Brunswick
E3B 6C2

Contact: Dr. A.R.P van Heiningen
Position: Professor

Tel.: (506) 453-4547
Fax: (506) 453-4510

Mandate:

An academic unit at U.N.B. established through funding from the Federal Government, Repap Enterprises and U.N.B. Its mandate is to do fundamental research and process development and serve as an independent testing laboratory and knowledge source for the pulp and paper community in Atlantic Canada.

Expertise in Applied Research and Development:

- Pulping
- Pulp bleaching
- Recovery of pulping liquors and pulping liquor analysis
- Paper testing

Equipment/Facilities Used:

- ADX equipment
- Ion chromatograph
- Pulp and paper testing equipment
- Pulp and paper library

Interactions with Industry:

- Informal interactions
- Contracts from government
- Consulting services

Major Affiliations:

- University of New Brunswick
- Repap Enterprises

Composition of Employees:

Scientists and Engineers: 3
Graduate Students: 2

Services Offered in:

English

Institute of Biomedical Engineering (UNB)

Institute of Biomedical Engineering University of
New Brunswick
P.O. Box 4400
Fredericton, New Brunswick
E3B 5A3

Contact: Dr. Edmund Biden, D. Phil.
Position: Director

Tel.: (506) 453-4966
Fax: (506) 452-1040

Mandate:

The Institute of Biomedical Engineering acts as an umbrella organization for bioengineering research at the University of New Brunswick. Specific areas of expertise include biological signal processing, myoelectric artificial arms, clinical engineering, custom electronic and mechanical prototyping, etc. The institute conducts research as well as provides service in upper limb prosthetic fitting, and other related areas.

Main Categories of Applied Research and Development Activities Offered:

Electronics
Engineering
Injection molding

Expertise in Applied Research and Development:

- Prosthetics fitting, testing, research
- Prototype electronics/mechanical fabrication
- Biological signal processing
- Testing of medical devices
- Electronic design

Equipment/Facilities Used:

- Prototype injection molding machine
- Prototype electronic mechanical fabrication equipment
- Extensive medical engineering library
- Biological signal acquisition equipment

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts from government
- Collaborative projects
- Consulting services
- Use of facilities

Major Affiliations:

- Engineering faculty at the University of New Brunswick
- Liberty Mutual Research - Hugh Steeper Ltd. For Prosthetics
- Forest Hill Rehabilitation Centre, Fredericton, New Brunswick

Collaborative Research Projects:

- Development of multifunction myoelectric control - Hugh Steeper Ltd., Liberty Mutual Research Centre
- Bone cement removal with Dr. Eric Gozna - Dr. Everett Chalmers Hospital
- Medical device tests - Forest Hill Rehabilitation Centre

Composition of Employees:

Scientists and Engineers: 5
Technicians and Technical Specialists: 6
Graduate Students: 10

Services Offered in:

English

Ionizing Energy Company of Canada Limited

Ionizing Energy Company of Canada Limited
P.O. Box 393, Station "A"
500 Beaverbrook Court
Fredericton, New Brunswick
E3B 4Z9

Contact: Graeme D. Ross
Position: President and CEO

Tel.: (506) 458-8840
Fax: (506) 458-1117

Mandate:

IEC is a privately held firm primarily engaged in commercial evaluation and development of radiation applications for base resource industries. The company specializes in high energy (1-5 MEV) electron beam applications. The primary applications of this technology are sterilization, material modification (cross linking of polymers) and food irradiation.

Main Categories of Applied Research and Development Activities Offered:

Advanced Materials
Agriculture
Bio-technical

Expertise in Applied Research and Development:

- Electron beam: dose mapping, material testing, and economic analysis

Equipment/Facilities Used:

- Our U.S. associates plants include:
  4.5 MEV 150 KW D.C. Cascade accelerator RD 1
  3.0 MEV 150 KW D.C. Cascade accelerator RD 2
  Note: The Company has to ship material to the USA for irradiation, but most preliminary and post irradiation work is done in New Brunswick

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Joint venture agreements
- Temporary transfer of staff to laboratories
- Use of facilities

Major Affiliations:

- E-Beam Services Inc. (joint venture)
- RDI Inc.
- Access to radiation and systems engineers and libraries
- Maritime Applied Science & Technology Ltd. (research and development capabilities)

Collaborative Research Projects:

- Curing animal hides with electron beams, the EVERGREEN process - Eastern regional leather research labs

Composition of Employees:

Scientists and Engineers: 6
Guest Scientists: 3

Services Offered in:

English

Jacques Whitford Environment Limited

Jacques Whitford Environment Limited
P.O. Box 1116
711 Woodstock Road
Fredericton, New Brunswick
E3B 5C2

Contact: Paul S. Belyea, P. Eng.
Position: Senior Engineer

Tel.: (506) 457-3200
Fax: (506) 452-7652

Mandate:

Jacques Whitford and Associates offers a comprehensive range of geotechnical and environmental engineering and research services. The principal engineering disciplines include geotechnical, materials, environmental, and mining engineering. Applied sciences capability includes geosciences, such as geophysics and geology, and environmental services, with a particular focus on impact assessment and remediation.

Main Categories of Applied Research and Development Activities Offered:

Advanced Materials
Biology
Engineering
Geomatics

Expertise in Applied Research and Development:

- Geotechnical engineering
- Concrete and asphaltic concrete testing
- Hydrogeology
- Hydrology
- Environmental engineering
- Mining
- Soil and water contamination
- Soil and water contamination remediation
- Geoenvironmental engineering

Equipment/Facilities Used:

- Concrete technology laboratory - Saint John
- CSA Laboratory - Bathurst
- CSA Laboratory - Moncton
- CSA Laboratory - Saint John

Interactions with Industry:

- Contracts from companies
- Contracts from government
- Consulting services
- Temporary transfer of staff to companies

Major Affiliations:

- McLelland Fugro, Texas USA
- Les Laboratoires Outaouais Inc., Gatineau, PQ

Collaborative Research Projects:

- Study of the role of supplementary cementing material for controlling Alkali - Aggregate reactions - New Brunswick Aggregates.
- Work for CANMET - in progress
- Miramichi Bridge No.3, Hydrotechnical/Ice Study application of computer model > RIVJAM

Composition of Employees:

Scientists and Engineers: 32
Technicians and Technical Specialists: 35

Services Offered in:

English
French

Lizotte Consultants Ltée/Ltd.

Lizotte Consultants Ltée/Ltd.
P.O. Box 41
4 Montreuil Street
Rivière-Verte, New Brunswick
E0L 1E0

Contact: Marcel Lizotte
Position: President

Tel.: (506) 263-5594
Fax: (506) 263-5066

Mandate:

Lizotte Consultants Ltée/Ltd. is a consulting firm that includes a variety of specialists. Established in Rivière-Verte since 1985, the firm provides services to private entreprise as well as government agencies. Since its founding, the company has carried out projects in several provinces in Canada and in the United States, Haiti, The Netherlands, Dominican Republic, Barbados, Germany, Bulgaria, Tunisia, Scotland, Israel, France, England, and Mexico. The company's principal activities are centred around studies on technological innovation and transfer of technology, research and development of new industrial and commercial products, research into foreign markets, and a variety of technical designs.

Main Categories of Applied Research and Development Activities Offered:

Agriculture
Aquaculture
Engineering
Telecommunications

Expertise in Applied Research and Development:

- Development of new products
- Technical design of prototypes
- Transfer of technology
- Technical and scientific research in projects involving technological innovation
- Research into new markets
- Improvement of manufacturing processes

Equipment/Facilities Used:

- Micro computer system incorporating leading edge technology
- Computer assisted drafting (AUTOCAD, Version II)
- Plotting boards

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services

Collaborative Research Projects:

- Development of an expert system - Inovatek Inc.
- Development of a system to separate out clumps of earth and rocks, adapted to a conventional potato harvester, - Michaud Equipments Ltd. and NRC
- Development of an earth-rock separator - Michaud Equipments Ltd. and NRC
- Development of an electronic scale for semi-continuous operation - Michaud Equipments Ltd. and NRC
- Development of a new type of semi-trailer for bulk transport with a hydraulic unloading system - Gagnon Ornemental and NRC
- Innovative technical design for a new type of drainage pipe for playing fields - Drainage Marcel Poirier and Son Ltd. and the A.P.E.C.A.
- Technical and scientific research on methods of rock crushing used throughout the world - Fahr Industries Ltd. and the A.P.E.C.A
- Innovative technical design for a heavy equipment transport loader - Fahr Industries Ltd. and the A.P.E.C.A.
- Development study for a chicken manure composting plant - Morneault Poultry Farms Ltd. and the A.P.E.C.A.
- Development of an innovative dryer for extruded particles - Recyclage Bio-Forêt Inc. and NRC

Composition of Employees:

Scientists and Engineers: 4
Technicians and Technical Specialists: 5

Services Offered in:

English
French
Spanish

MCM Machinery Condition Monitoring Inc.

MCM Machinery Condition Monitoring Inc.
P.O. Box 4005, Station "B"
1 Alder Road
Saint John, New Brunswick
E2M 5E6

Contact: Ron Wilson
Position: Technical Director

Tel.: (506) 738-8675
Fax: (506) 738-8133

Mandate:

To provide assistance for the maintenance and improvement of industrial equipment and processes.

Main Categories of Applied Research and Development Activities Offered:

Engineering

Expertise in Applied Research and Development:

- Acoustic analysis plus engineered solutions
- Vibration analysis plus engineered solutions
- Structural analysis
- Model analysis
- Oil wear debris analysis
- Noise and vibration

Equipment/Facilities Used:

- Noise and vibration analysis instrumentation
- Computer software for structural and model analysis

Interactions with Industry:

- Contracts from companies
- Consulting services

Major Affiliations:

- Total productive maintenance - Atlantic (Sister Co.)
- Vibration Institute
- American Society for Quality Control
- Society of Lubrication Engineers

Composition of Employees:

Scientists and Engineers: 2
Technicians and Technical Specialists: 2

Services Offered in:

English

Manufacturing Technology Centre (Mt. A University)

Manufacturing Technology Centre
Mt. Allison University
Engineering Department
Sackville, New Brunswick
E0A 3C0

Contact: P.K. Varma
Position: Professor of Engineering

Tel.: (506) 364-2592
Fax: (506) 364-2216

Head Office:

MTC/Cadmi Inc.
NBCC Moncton
1234 Mountain Road
Box 2100, Station "A"
Moncton, New Brunswick
E1C 8H9

Contact: John Hanusiak

Tel: 1-800-561-4004
(506) 856-2247
Fax: (506) 856-2806

Mandate:

The main thrust of the MTC is to provide a facility for computer aided design and related activity on small computer systems. The centre's mandate is to provide advice, training and project development facilities to the public and industrial/business community in the geographical area around Sackville.

Main Categories of Applied Research and Development Activities Offered:

Engineering
Technology Management

Expertise in Applied Research and Development:

- Computer aided design
- Data base development
- Computerized measurement and control
- CAI development; user friendly front ends

Equipment/Facilities Used:

- Fully equipped small micro-CAD centre
- 8 networked PS/2-80 systems
- E-sized plotter
- OCR system and appropriate software
- Portable data loggers

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Collaborative projects
- Consulting services

Major Affiliations:

- MTC/Cadmi Inc. - Moncton N.B.

Collaborative Research Projects:

- Mapping of mollusk inventory survey - Department of Fisheries and Oceans
- Facilities management project
- English literature graphics project
- Database and networking project - MTC Inc.
- Assistance in CAD work for measurement of fish heart perameters
- Fast 12 bit analog to digital converter
- Stand alone programmable process controller

Composition of Employees:

Scientists and Engineers: 4

Services Offered in:

English

Manufacturing Technology Centre (U de M)

Manufacturing Technology Centre (U de M)
Rémi Rossignol Building
Université de Moncton
Moncton, New Brunswick
E1A 3E9

Contact: Charles Maillet
Position: Assistant Director

Tel.: (506) 858-4562/1-800-858
Fax: (506) 858-4541

Head Office:

MTC/Cadmi Microelectronic Inc.
NBCC Moncton
1234 Mountain Road
Box 2100, Station "A"
Moncton, New Brunswick
E1C 8H9

Contact: John Hanusiak
Position: General Manager

Tel.: 1-800-561-4004
(506) 856-2247
Fax: (506) 856-2806

Mandate:

The MTC/Université de Moncton was created through grants from the federal and provincial governments. Its mandate is the transfer of leading edge technologies at the design and production levels (CAD/CAM, computer assisted design and manufacturing). It is contributing to the modernization of small and medium-sized businesses in the province and making them more competitive in domestic and international markets. Since its creation, the MTC has somewhat modified its mandate, and has adopted the mission of introducing small and medium-sized businesses to the advantages offered by a quality assurance management program, so that they will be capable of competing in the global market. Besides providing aid in computer assisted design and manufacturing and a quality assurance management program, the MTC also offers research and development services in mechanical and industrial engineering.

Main Categories of Applied Research and Development Activities Offered:

Advanced Materials
Computer Science
Engineering
Quality Assurance and Management
Stereolithography

Expertise in Applied Research and Development:

- Design of mechanical systems
- Execution of a concept by designing a mechanism for its implementation
- Aid to small and medium-sized businesses in selecting computer assisted design software, computer assisted manufacturing software, and other software allowing an increase in productivity while ensuring quality at a competitive cost
- Study of use of robotics in small and medium-sized businesses
- Selection of production equipment for small and medium-sized businesses
- Transfer of leading edge technologies to small and medium-sized businesses

Equipment/Facilities Used:

- Computer-based production cell (miniature CIM)
- Robotics cell (two "ADEPT" robots equipped with cameras)
- VAX 6310
- Four UNIGRAPHICS workstations operating in conjunction with VAII
- One "PROENGINEER" workstation
- Microcomputers

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts to companies
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies

Major Affiliations:

- The MTC/ Université de Moncton is a research and development centre that is part of a system of centres in N.B.
- Affiliation with eight Manufacturing Technology Centres in New Brunswick
- All the centres are linked by a modern communication network
- The network also allows access to various databases in the different centres and in industry

Collaborative Research Projects:

- Design for small refrigerators - Atlantic Mini-Fridge, Dieppe, N.B.
- Computer drawings of mechanical parts - Imperial Sheet Metal, Richibouctou, N.B.
- Design of a mechanical part for sewing - Unitex, Moncton, N.B.
- Software development/design of a new product - Spielo Manufacturing Inc., Moncton, N.B.
- Design of a mechanical blade - Ocean Optical, Moncton, N.B.
- Computer translation (pilot project) - Economic Development and Tourism, Secretary of State
- Plans for a plant to manufacture concrete blocks - Frank X. Leblanc Cont., Moncton, N.B.
- Design and development of a relaxation system (high-tech pillow) - Sleep and Learn Products Inc.

Composition of Employees:

Scientists and Engineers: 3
Professors: 23

Services Offered in:

English
French

Manufacturing Technology Centre (UNB)

Manufacturing Technology Centre (UNB)
P.O. Box 4400
E41 Head Hall, UNB Campus
Fredericton, New Brunswick
E3B 5A3

Contact: Eric Cook
Position: Director

Tel.: (506) 453-3533
Fax: (506) 453-5025

Head Office:

MTC/Cadmi Inc.
NBCC Moncton
1234 Mountain Road
Box 2100, Station "A"
Moncton, New Brunswick
E1C 8H9

Contact: John Hanusiak

Tel.: 1-800-561-4004
(506) 856-2247
Fax: (506) 856-2806

Mandate:

The MTC-UNB's mandate is to develop and transfer technology to industry. This goal is met through training programs, seminars, workshops, consulting and engineering services utilizing personnel who are experts in today's technologies. The MTC operates on a cost recovery basis and does not compete with the private sector. Located at the University of New Brunswick the MTC-UNB has access to world class professionals and facilities.

Main Categories of Applied Research and Development Activities Offered:

Engineering
Technology Management

Expertise in Applied Research and Development:

- Computer Aided Design (CAD) and modelling
- Computer Aided Manufacturing (CAM)
- Computer Aided Engineering (CAE)
- Quality assurance
- Engineering design (new products and/or processes)
- Expert systems
- Automation
- Robotics
- Finite Element Modelling (FEM)
- Software development
- Simulation

Equipment/Facilities Used:

- Complete licences to Unigraphics CAD/CAM software
- FEM software including ANSYS
- Most major PC CAD software
- Access to various expert system shells
- PC's, workstations and mainframes; complete availability
- Access to university personnel, labs and facilities

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies
- Temporary transfer of staff to laboratories
- Use of facilities

Major Affiliations:

- Part of the MTC Inc. provincial network
- Active member of UNB community
- The National Research Council
- NB Dept. of Economic Development and Tourism
- Full access to national/international databases

Collaborative Research Projects:

- R & D projects with more than 100 local companies
- Confidential FEM projects with an international corporation
- Stear project - Neill and Gunter for The Canadian Space Agency (CSA)
- Design projects - Spar Aerospace
- R & D projects - The Maritime Forest Ranger School
- Numerous National Research Council (NRC) projects
- Numerous projects - Industry Science and Technology (ISTC)

Composition of Employees:

Scientists and Engineers: 5
Technicians and Technical Specialists: 4
Guest Scientists: 4
Graduate Students: 7

Services Offered in:

English
French

Mount Allison University

Mount Allison University
Sackville, New Brunswick
E0A 3C0

Contact: Christine Storm
Position: Director of Research Administration

Tel.: (506) 364-2462
Fax: (506) 364-2216

Mandate:

To provide a rigorous, liberal education of high quality primarily to undergraduate students; to enhance, advance and transmit knowledge through scholarship, research and creative activity in both theoretical and applied areas; to share the expertise of its staff, its information services and its facilities for the benefit of the community.

Main Categories of Applied Research and Development Activities Offered:

Biology
Chemistry
Computer Science
Engineering
Geology
Mathematics
Physics

Expertise in Applied Research and Development:

- Science - solid state anemometry, acoustic anechoic room measurement, solar energy data collection and dense field evaluation, oxygen transport to muscle, energy transformation in muscle, winter hardiness in plants, stability of plastics, optical video-based detection of faint meteors, drug addiction, behavioral immunology, neural plasticity and transplantation
- Computer science - computer aided design, data base development, computerized measurement and control, CAI development, user friendly front-ends
- Engineering - circuit analysis, mathematical modelling of natural phenomena
- Mechanical and chemi-mechanical wood pulps

Equipment/Facilities Used:

- Ralph Pickard Bell Library, Geology Library, Chemistry Library
- Logitech Automated Rock Thin Section production system (LP 30)
- Transmission electron microscope, Phillips EM 200
- Hewlett-Packard 5988A gas chromatograph (GC)/liquid chromatograph (LC) both interfaced to a quadrapole mass spectrometer to obtain molecular weights of molecules
- Mattson Polaris FTIR for identification of molecules using infrared radiation
- VAX 6310, 128 mb., 2 MICROVAX 3400s, 32 mbs each, 4.8 gb disk storage
- Very high penetration rate for local area networking; over 90% buildings on campus, including student residences, connected to campus Ethanet backbone
- Computer-based system in Library to allow on-line searching of Library catalogue
- University community accessible MAC and PC labs with peripheral devices
- Library databases - INTERNET, DIALOG, CD-ROM INFOMART, WILSONLINE, STN, CAN-OLE, WAVES, BIOSIS, etc.
- Small anechoic chamber

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Collaborative projects
- Consulting services
- Use of facilities

Major Affiliations:

- MTC/Cadmi Inc. - Moncton, N.B.
- Huntsman Marine Science Centre - St. Andrews, N.B.
- NB/PEI Educational Computer Network Ca*net
- Provincial and Federal Government Departments, Agencies and Laboratories

Collaborative Research Projects:

- Rural and Small Town Research Group
- Computer Aided Engineering Centre
- Centre for Learning Assistance Research
- Centres of Excellence Network for Mechanical and Chemi-mechanical Wood Pulps
- Apple Canada Innovation Centre
- Sealab - Multi tanked fresh and seawater facility for experimental work on invertebrates and vertebrates
- Quaternary climate of southern oceans - with Dalhousie University Marine Geology Department
- Biology Department - collaborative work with University of Maine (Orono)
- Mathematics and Chemistry Departments - collaborative work with Dalhousie University
- Technology diffusion project

Composition of Employees:

Scientists and Engineers: 55
Technicians: 46
Guest Scientists: 3
Graduate Students: 5
Post Doctoral Fellows: 5
International Fellows: 1
Adjunct Professors: 4

Services Offered in:

English

NB Research and Productivity Council (RPC)

New Brunswick Research and Productivity
Council (RPC)
921 College Hill Road
Fredericton, New Brunswick
E3B 6Z9

Tel.: (506) 452-8994
Fax: (506) 452-1395

Contact: Dr. Peter Lewell
Position: Acting Executive Director

Tel.: (506) 452-0585

Mandate:

RPC offers a wide range of professional and technical services to help industry develop new products and innovative solutions to operating problems. Our scientists, engineers and technologists are supported by extensive laboratory facilities and respond to the needs of industrial clients in New Brunswick and elsewhere.

Main Categories of Applied Research and Development Activities Offered:

Advanced Materials
Aquaculture
Bio-technical
Biology
Chemistry
Electronics
Engineering
Fisheries
Forestry
Geology
Nuclear Energy
Occupational Health And Safety
Physical Metallurgy
Technology Management

Expertise in Applied Research and Development:

- The retrieval of technical information from numerous on line databases
- Failure analysis; mechanical testing; non-destructive testing
- Contract services in applied R&D: food processing; food product development; microbiological analysis; fish health monitoring and research; fish and animal feed analysis
- Nutritional analysis of food products; trace organic analysis; inorganic analysis; pest (insect) management research; spray technology in forestry and agriculture applications
- Quality assurance systems; fossil fuel combustion; mineral processing; chemical and biomass processing; gas testing machine design; process automation
- Prototype development and manufacture; metallurgical inspection; corrosion
- Design and development of "smart" tools and accessories and systems
- Electrical and mechanical calibration

Equipment/Facilities Used:

- Technical information centre with on-line access; analytical laboratories; food pilot plant; live fish holding lab (aquaculture)
- Portable mass spectrometer; process development pilot plant; fluidized bed test facilities; electron microprobe; metrology lab
- Wire electro-discharge machining centre; precision orbital and seam welding; coordinate measurement; instron test centre
- Gas chromatograph/mass spectrometer; high resolution mass spectrometer
- Laser cutter; CNC machine shop

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies
- Temporary transfer of staff to laboratories
- Use of facilities

Major Affiliations:

- Association of Provincial Research Organizations (APRO)
- Participant in The New Brunswick Manufacturing Technology Centre
- Sponsor of Incutech Ltd.
- Deliver IRAP services under contract to NRC

Collaborative Research Projects:

- 1000 collaborative projects per year
- Fish disease diagnostics - UNB
- Advanced materials for space station application - Atlantic Nuclear Services, UNB and others
- Nuclear energy R&D - UNB
- Autonomous robotics for space application - Dynacon Ltd. of Toronto
- Seafood product development - Université de Moncton

Composition of Employees:

Scientists and Engineers: 51
Technicians and Technical Specialists: 34
Undergraduate Students: 25

Services Offered in:

English
French

NCA Microelectronics Inc.

NCA Microelectronics Inc.
199 Chesley Drive
Saint John, New Brunswick
E2K 4S9

Contact: Harvey Nickerson
Position: Vice-President

Tel.: (506) 634-5014
Fax: (506) 634-5035

Mandate:

NCA Microelectronics is a professional electronics engineering firm located in Saint John, N.B. NCA's purpose is to utilize its expertise in electronics technology to provide reliable, high quality products and design services. NCA specializes in designing and developing electronic and microprocessor based systems for commercial and industrial applications. Previous experience includes remote telemetry, instrumentation, control, low cost digital audio announcement devices, and the design of electronic products for biological laboratory and agriculture applications. NCA has in-house hardware and software design resources and a well established subcontractor network for production requirements.

Main Categories of Applied Research and Development Activities Offered:

Electronics
Telecommunications

Expertise in Applied Research and Development:

- Design of new, innovative electronic products for a variety of external users
- Electronics design and implementation
- Microprocessor software design and development
- Knowledge and expertise with designing robust electronic systems for temperature, shock and vibration

Equipment/Facilities Used:

- Microprocessor firmware development equipment
- CAD for schematic capture and printing circuit board layout
- AUTOCAD version 10 for mechanical design and drafting
- Various plotters for up to D size plots
- 8086 and 8051 software compilers
- Audio digitization workstation
- Programmers for EPROM, E^2 PROM, FLASH, and single chip micros

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts to companies
- Contracts from government
- Consulting services

Major Affiliations:

- Parent company is Fundy Cable Ltd./Ltée.

Collaborative Research Projects:

- Development of CATV (cable TV) products for Parent Company
- Development of telecommunications products - DOC (Federal Department of Communications)

Composition of Employees:

Scientists and Engineers: 3

Services Offered in:

English

Neill and Gunter Limited

Neill and Gunter Limited
P.O. Box 713
191 Prospect Street
Fredericton, New Brunswick
E3B 5B4

Contact: K.F. Reeder, P. Eng.
Position: Vice President/General Manager

Tel.: (506) 452-7000
Fax: (506) 452-0112

Mandate:

Neill and Gunter is a consulting and design engineering firm backed by a large staff of skilled professionals in civil, structural, electrical, mechanical, controls and process engineering. Neill and Gunter Limited specializes in the development and design of industrial facilities.

Main Categories of Applied Research and Development Activities Offered:

Engineering
Forestry
Nuclear Energy
Technology Management
Wood Science and Technology

Expertise in Applied Research and Development:

- Engineering
- Composite wood products
- Expert system research
- Sustained shockwave plasma
- Steer initiative simulator for expert systems

Equipment/Facilities Used:

- Manufacturing Technology Centre
- Research and Productivity Council
- Hugh John Flemming Forestry Complex
- Cadmi

Interactions with Industry:

- Informal interactions
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies

Major Affiliations:

- Neill and Gunter Moeltner International
- Neill and Gunter (Nova Scotia) Ltd.
- Neill and Gunter Incorporated, Scarborough, Maine, USA

Collaborative Research Projects:

- Composite board resin research

Composition of Employees:

Scientists and Engineers: 37
Technicians and Technical Specialists: 34

Services Offered in:

English
French

The New Brunswick Museum

The New Brunswick Museum
277 Douglas Avenue
Saint John, New Brunswick
E2K 1E5

Contact: Donald F. McAlpine
Position: Head, Natural Sciences Division

Tel.: (506) 658-1842
Fax: (506) 658-1842

Mandate:

To foster and promote the study and public enjoyment and appreciation of the natural heritage of New Brunswick and other jurisdictions by collecting, purchasing, preserving and interpreting which relates to this heritage. (New Brunswick Museum Act)

Main Categories of Applied Research and Development Activities Offered:

Biology
Geology

Expertise in Applied Research and Development:

- Identification of geological, botanical and zoological specimens
- Field surveys in paleontology, botony (both vascular and non-vascular plants), invertebrate and vertebrate zoology
- Special expertise in quaternary coleoptera, bryology and lichenology, amphibians and small mammal ecology

Equipment/Facilities Used:

- Scientific research collection consisting of about 250,000 specimens in areas of geology, botany, and zoology
- Specialized library holdings in floristics, faunists and systematics

Interactions with Industry:

- Informal interactions
- Contracts from government
- Collaborative projects
- Consulting services
- Use of facilities

Major Affiliations:

- CHIN (Canadian Heritage Information Network) database
- Some staff cross appointed at the University of New Brunswick

Collaborative Research Projects:

- Field Guide to Geology - Department of Natural Resources and Energy, N.B.
- Field Guide to Geology - Department of Natural Resources, Nova Scotia
- Research papers - University of Waterloo, Department of Earth Science
- Contract and surveys - Geological Survey of Canada
- Geology and research papers - Scripps Institute of Oceanography
- Research, geology - Université de Liege, Belgium
- Geology - Nova Scotia Museum
- Research papers, zoology - University of Guelph and UPEI
- Toxicology section, research, zoology - Canadian Wildlife Service

Composition of Employees:

Scientists and Engineers: 3
Technicians and Technical Specialists: 1

Services Offered in:

English
French

Northeast Exploration Services Ltd.

Northeast Exploration Services Ltd.
875 St. Peter Avenue
Bathurst, New Brunswick
E2A 2Z1

Contact: T. Mersereau
Position: Manager

Tel.: (506) 548-2592
Fax: (506) 548-4684

Mandate:

Northeast Exploration Services Ltd. deals in mineral exploration data collection, processing and production using GIS, imaging, and PCI software to produce an integrated comprehensive product. Environmental modelling, site analysis for government and industry. Marketing modelling, and site analysis for government and industry are also conducted.

Main Categories of Applied Research and Development Activities Offered:

Geology

Expertise in Applied Research and Development:

- Spatial analysis of geological, geochemical, geophysical data
- Landsat analysis
- Mineral exploration data modelling
- Integration of multidisciplinary data sets

Equipment/Facilities Used:

- GIS software
- Proprietary data intake software
- "Vision" image analysis software
- PCI image analysis software for Landsat use

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Consulting services

Composition of Employees:

Scientists and Engineers: 1
Technicians and Technical Specialists: 2

Services Offered in:

English

Omni Ventures Inc.

Omni Ventures Inc.
P.O. Box 12,500, Station "A"
190 Prospect Street
Fredericton, New Brunswick
E3B 6C2

Tel.: (506) 459-1029
Fax: (506) 459-4944

Contact: Sean Ryan
Position: Operations Manager

Tel.: (506) 450-8823

Mandate:

Omni Ventures Inc. is a service company, providing business and government organizations with technology-related services such as computer technical service (hardware and software support), computer-related training, research, development and implementation of custom software, consulting services with references to computer technology, and data communications services.

Main Categories of Applied Research and Development Activities Offered:

Computer Science
Technology Management
Telecommunications

Expertise in Applied Research and Development:

- Software design and implementation
- Data communications

Equipment/Facilities Used:

- Programming library
- Programming language source code routines
- Multiple operating system computers

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies
- Use of facilities

Major Affiliations:

- Many on-live databases

Collaborative Research Projects:

- N.B. Government Programming Projects - N.B. Government

Composition of Employees:

Technicians and Technical Specialists: 4
Programmers: 4

Services Offered in:

English

Peat Research and Development Centre Inc. (U de M)

Peat Research and Development Centre Inc.
P.O. Box 2000
218 J.D. Gauthier Boulevard
Shippagan, New Brunswick
E0B 2P0

Contact: Jean-Yves Daigle
Position: General Manager

Tel.: (506) 336-9719
Fax: (506) 336-9834

Mandate:

Peat Research and Development Centre is a non-profit research organization. Its two main objectives are to offer lab services and expertise to the Peat industry and also to broaden services to other industries.

Main Categories of Applied Research and Development Activities Offered:

Agriculture
Chemistry
Horticulture
Composting
Waste water treatment

Expertise in Applied Research and Development:

- Method of refining peat moss
- Use of peat moss in filtration systems
- Use of peat moss in composting
- Use of residual peat bogs
- Transport of peat moss
- Environmental impact of commercial development
- Waste water treatment
- Effects of extraction method on quality of peat moss
- Development of added-value products

Equipment/Facilities Used:

- Library specialization in peat bogs and peat moss
- Equipment for a laboratory devoted to research in this field
- Databases in Ottawa

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts from government
- Collaborative projects
- Consulting services
- Use of facilities

Major Affiliations:

- Université de Moncton

Collaborative Research Projects:

- Composting - Agriculture Canada
- Organic - mineral fertilizer - private enterprise
  - Agriculture Canada
  - New Brunswick Department of Agriculture
- Transport of peat moss - private enterprise
- Waste water treatment - New Brunswick Department of Natural Resources and Energy
  - New Brunswick Department of Health
  - New Brunswick Department of the Environment
  - private sector

Composition of Employees:

Scientists and Engineers: 2
Technicians and Technical Specialists: 3
Graduate Students: 2

Services Offered in:

English
French

Predictive Maintenance Expert Systems Co.

Predictive Maintenance Expert Systems Co.
30 Highmount Court
Saint John, New Brunswick
E2J 4H9

Contact: Terry Davies
Position: President

Tel.: (506) 657-6446

Mandate:

To continue ongoing research and development into expert systems and their application in " real-time ", in the fields of process monitoring and control, vibration analysis, and predictive maintenance.

Main Categories of Applied Research and Development Activities Offered:

Computer Science
Engineering
Artificial Intelligence

Expertise in Applied Research and Development:

- Expert systems development for real time applications
- Research into neural networks
- Development of neural networks to real world situations
- Develop micro-computer applications to predictive maintenance
- Vibration analysis using expert systems
- Process monitoring and control
- Digital signal processing on real-time events
- DOS base operating systems

Equipment/Facilities Used:

- Neural networks development software
- Digital signal processing software

Interactions with Industry:

- Informal interactions
- Formal presentations

Major Affiliations:

- Member of Software New Brunswick
- Member of New Brunswick Chapter of the Vibration Institute

Composition of Employees:

Scientists and Engineers: 1

Services Offered in:

English

Professional Loss Control Ltd.

Professional Loss Control Ltd.
P.O. Box 162
364 Queen Street
Fredericton, New Brunswick
E3B 4Y9

Contact: Luke Morrison
Position: President

Tel.: (506) 459-1770
Fax: (506) 459-5026

Mandate:

A specialized engineering firm analyzing fire/explosion hazards; designing fire protection systems; developing fire safety programs and standards; training staff in fire control and emergency response; auditing existing loss control programs; advising on regulatory code applications; investigating fire and explosion losses; conducting research into various aspects of fire.

Main Categories of Applied Research and Development Activities Offered:

Engineering

Expertise in Applied Research and Development:

- Research and development on fire behaviour
- Research and development on fire hazard analysis
- Research and development on protection measure response to fire

Equipment/Facilities Used:

- Fire protection specialized in-house library
- Fire Science Centre - University of New Brunswick
- National Research Council facilities
- Canadian Institute for Scientific and Technical Information (CISTI) - library facilities

Interactions with Industry:

- Contracts from government
- Consulting services

Major Affiliations:

- Professional Loss Control, Inc.
- CISTI

Collaborative Research Projects:

- Full scale fire testing development - The Department of National Defence
- Development of CANDU design criteria - The Atomic Energy Control Board

Composition of Employees:

Scientists and Engineers: 3
Technicians and Technical Specialists: 2

Services Offered in:

English

REMS Research Ltd.

REMS Research Ltd.
P.O. Box 651
25 Waggoners Lane
Fredericton, New Brunswick
E3B 5A6

Contact: Ugo Feunekes
Position: President

Tel.: (506) 450-1511
Fax: (506) 459-7290

Mandate:

REMS (Resource/Environment Management Systems) specializes in software development and consultation in the fields of wildland fire and renewable resource management and planning. REMS has published papers in scientific journals and conference proceedings and most work undertaken involves technology transfer.

Main Categories of Applied Research and Development Activities Offered:

Computer Science
Forestry
Technology Management

Expertise in Applied Research and Development:

- Fire behaviour prediction software
- Fire growth model
- Wood supply model
- Weather collection satellite software
- GIS related software - fire growth

Equipment/Facilities Used:

- UNB Science Library

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services

Major Affiliations:

- Forestry Canada
- Parks Canada
- Forest Technology Systems - Victoria, B.C.

Collaborative Research Projects:

- Fire behaviour prediction software - Provincial Forest Fire Centre, N.B. (DNR) and Forestry Canada
- Forest extension wood supply model - DNR
- Weather collection and applications software - Forest Technology Systems, Victoria, B.C.
- Weather collection software - DND and Base Gagetown

Composition of Employees:

Scientists and Engineers: 3
Technicians and Technical Specialists: 1
Office Manager: 1

Services Offered in:

English

Research Centre for Energy Conversion (U de M)

Research Centre for Energy Conversion
Engineering Department
Université de Moncton
Moncton, New Brunswick
E1A 3E9

Contact: Dr. Samuel Sami, Ph.D.
Position: Director

Tel.: (506) 858-4194
Fax: (506) 858-4082

Mandate:

Modern installations and a technical team are on the premisis for the analysis of problems with the following equipment: heating, ventilation, air conditioning and refrigeration (HVAC & R). Our mandate consists of developing efficient energy systems that have a positive impact on the environment, and encouraging and assisting in the commercialization of energy technologies.

Main Categories of Applied Research and Development Activities Offered:

Environment
Engineering
Energy Conservation

Expertise in Applied Research and Development:

- Consultation on energy problems
- Heating and refrigeration

Equipment/Facilities Used:

- Automatic testing grounds for examining, accrediting and certification of HVAC & R equipment

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to laboratories
- Use of facilities

Collaborative Research Projects:

- Notion and analysis assisted by computer (CAD/CAA) of HVAC & R equipment and in particular heat pumps
- Dynamic behaviour of HVAC & R equipment, and in particular heat pumps that function with the new pure and non azeotropic refrigerants

Composition of Employees:

Scientists and Engineers: 1
Technicians and Technical Specialists: 1
Guest Scientists: 2
Graduate Students: 4

Services Offered in:

English
French

Research Laboratory for Industry and the Environment (U de M)

Research Laboratory for Industry and the
Environment (U de M)
Faculty of Science
Université de Moncton
Moncton, New Brunswick
E1A 3E9

Tel.: (506) 858-4333
Fax: (506) 858-4541

Contact: Dr. Charles Bourque
Position: Director

Tel.: (506) 858-4332

Mandate:

The main objectives of the Research Laboratory for Industry and the Environment are to promote the establishment of new environmental industries, help industry conform to existing environmental standards and to render this production cost effective, increase industrial productivity by means of chemical analysis, assess the potential of new technologies or production methods by means of chemical analysis, and to develop standards and new methods of chemical analysis for governmental agencies.

Main Categories of Applied Research and Development Activities Offered:

Environment
Solidwaste management

Expertise in Applied Research and Development:

- Chemical analysis (organic) - pesticides, PCB's, PAH's, hydrocarbons
- Chemical analysis (inorganic) - heavy metals, common anions and general water quality parameters
- Management of solidwastes - stamping

Equipment/Facilities Used:

- Gas chromatographs with FID, ECD, NPD, FPD and ion-trap detectors
- Liquid chromatographs with a variety of detectors
- A 200 MHz nuclear magnetic resonance spectrometer (NMR), FT-IR and ultra centrifuge
- Atomic absorption spectrometers - flame and graphite furnace
- Microwave digestion system

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Use of facilities

Major Affiliations:

- The Research Laboratory for Industry and the Environment is part of the Research Centre on Environmental Science
- Network of centres at the Université de Moncton (CRA, CRCE)
- Peat Research and Development Centre Inc. (Shippagan)
- Composting Council of Canada

Collaborative Research Projects:

- Research on purification of water technology - Hydro Ltd. (Fredericton)
- Stamping study - New Brunswick Environment (Fredericton)
- Chemical analysis - New Brunswick Agriculture (Bathurst)
- Chemical analysis, Miramichi Estuary - Environment Canada
- Study on the Kouchibougouac Park contamination - Université de Sherbrooke
- Research on the chemical contamination that is present in the beaver dam deposits - Fisheries and Oceans (Moncton)

Composition of Employees:

Scientists and Engineers: 2
Technicians and Technical Specialists: 2
Professors: 4
Graduate Students: 4

Services Offered in:

English
French

Rockwood Informatics Corp.

Rockwood Informatics Corp.
212 Queen Street, Suite 202
Fredericton, New Brunswick
E3B 1A8

Contact: Mike Stapenhurst
Position: President

Tel.: (506) 458-5830
Fax: (506) 458-1209

Mandate:

The company consists of the two divisions - The Knowledge Engineering Group and the Consulting Services Group. The Knowledge Engineering Group specializes in using Artificial Intelligence technologies to provide information-based solutions to both the public and private sectors. The Consulting Services Group provides systems analysis, business case development, facilities management and systems integration services in micro, mini and mainframe computer environments.

Main Categories of Applied Research and Development Activities Offered:

Biology
Geomatics
Technology Management

Expertise in Applied Research and Development:

- Artificial intelligence - expert systems

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts from government
- Consulting services

Collaborative Research Projects:

- Expert system for use in wildlife management - New Brunswick Department of Natural Resources

Composition of Employees:

Scientists and Engineers: 10
Technicians and Technical Specialists: 15

Services Offered in:

English

SCAT Science and Technology Inc.

SCAT Science and Technology Inc.
P.O. Box 713
191 Prospect West
Fredericton, New Brunswick
E3B 5B4

Contact: Stanton T. Friedman
Position: President

Tel.: (506) 457-0232
Fax: (506) 452-0112

Mandate:

SCAT's primary focus is the collection, review, evaluation, compilation and presentation of worldwide information regarding areas of advanced technology, usually interdisciplinary. President Friedman has worked on a very wide variety of advanced nuclear and space systems, and lectured on scientific controversies throughout North America.

Main Categories of Applied Research and Development Activities Offered:

Nuclear Energy
Physics
Technology Management
Telecommunications
Waste Heat Recovery

Expertise in Applied Research and Development:

- Monitoring of radon levels in buildings and water supplies
- Collection, review, evaluation and presentation of technical data from all over the world
- Environmental aspect of nuclear energy
- Utilization of magnesium for the prevention of cardiovascular disease
- Utilization of waste heat from power plants
- Utilization of nuclear technology for various non-power related applications such as for space systems, nuclear medicine and food irradiation
- Development of electromagnetic propulsion for ships and aircraft
- Technology forecasting
- State-of-the-art surveys
- Unidentified flying objects
- Space power systems
- Nuclear propulsion

Equipment/Facilities Used:

- Radiation monitoring equipment
- UNB and RPC libraries

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts to companies
- Contracts from government
- Consulting services

Major Affiliations:

- Neill and Gunter Limited
- Canadian and American Nuclear Societies
- American Physical Society
- American Institute of Aeronautics and Astronautics
- American Association for the Advancement of Science
- American College of Nutrition
- Institute of Food Technology
- Canadian Hypertension Society
- American Association of Radon Scientists and Technicians
- Air and Waste Management Association
- American Federation of Television and Radio Artists
- Alliance of Canadian Television and Radio Artists
- Mutual UFO Network (Board of Directors)
- World Future Society

Collaborative Research Projects:

- Recovery and utilization of waste heat from power plants and the use of electron accelerators for commercial applications - Canadian Electrical Association
- Radon levels in homes in the Fredericton area and an overview of radon levels in Canada - Canadian Mortgage and Housing Corporation
- Treatment of flue gas with electron beams to reduce acid rain - Environment Canada
- Future technology scenarios for New Brunswick - Innovation Centre of New Brunswick
- Sustained shock wave plasma processing - Neill and Gunter
- Study of Operation Majestic 12 Documents and crashed flying saucers - Fund for UFO research (Washington DC)

Composition of Employees:

Scientists and Engineers: 1
Guest Scientists: 2

Services Offered in:

English

SGS Supervision Services Inc.

SGS Supervision Services Inc.
55 Britain St.
Saint John, New Brunswick
E2L 1W9

Contact: Anton Feicht
Position: Lab Manager

Tel.: (506) 633-1872
Fax: (506) 633-0886

Mandate:

SGS offers fully reliable, independent testing, inspection, checking, analysis and control services in the fields of microbiology, chemistry and marine surveying. SGS can provide chemical, microbiological, nutritional, physical, and toxilogical analysis of products; for example, food, potash, petroleum, fertilizers and pharmaceuticals. Marine services include hull surveys, pre-purchase inspection and cargo surveys.

Main Categories of Applied Research and Development Activities Offered:

Agriculture
Aquaculture
Biology
Chemistry
Fisheries
Food Technology

Expertise in Applied Research and Development:

- Product development for the food industry
- Sanitation program development and monitoring
- Formulation research and development
- Quality control for the food industry

Equipment/Facilities Used:

- Atomic absorption/flame emission spectrophotometer
- Nitrogen analyzer and digester
- Spec. 20
- Bomb calorimeter
- Ring and puck pulverizer
- Crusher

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts to companies
- Collaborative projects
- Consulting services
- Temporary transfer of staff to laboratories

Major Affiliations:

- SGS laboratories - all over Canada (head office in Vancouver)
- SGS laboratories - in Europe (head office in Geneva)
- Atlantic Regional Head Office - Sydney, Nova Scotia
- General testing laboratories - Vancouver, B.C.
- Standard biological laboratories - Mississauga, Ont.
- Retail research laboratories - Markham, Ont.
- Bio-Lalonde food laboratories - Point Claire, Quebec
- X-ray, X-ral assay - Don Mills, Ont.
- Commercial testing - USA

Composition of Employees:

Scientists and Engineers: 1
Technicians and Technical Specialists: 2
Marine Surveyors: 2
Inspectors: 1

Services Offered in:

English

SMA Engineering

SMA Engineering
Division of UMA Engineering Ltd.
50 Cameron Street
Moncton, New Brunswick
E1C 9A9

Contact: L.W. MacDonald, P.Eng.
Position: General Manager

Tel.: (506) 857-8708
Fax: (506) 857-8989

Mandate:

UMA provides consulting services in Atlantic Canada through its Halifax, Moncton and Charlottetown offices. UMA's primary objectives are to provide the best possible service to their clients, consistent with government policy, to maximize local content and benefits. In order to achieve these objectives, UMA has assembled a team of skilled experienced local professionals and support staff.

Main Categories of Applied Research and Development Activities Offered:

Aquaculture
Engineering
Geomatics

Expertise in Applied Research and Development:

- Urban, economic and development planning
- Environmental planning and engineering including waste management
- Transportation planning and engineering
- Municipal engineering
- Structural and coastal engineering
- Aquaculture

Interactions with Industry:

- Informal interactions
- Contracts to companies
- Contracts from government
- Consulting services
- Temporary transfer of staff to companies

Major Affiliations:

- UMA Group Ltd.

Collaborative Research Projects:

- GIS applications in Municipal Infrastructure
- Management - University of New Brunswick

Composition of Employees:

Scientists and Engineers: 6
Technicians and Technical Specialists: 15
Guest Scientists: 1

Services Offered in:

English

School of Forestry - Edmundston (U de M)

School of Forestry - Edmundston (U de M)
165 Hebert Boulevard
Edmundston, New Brunswick
E3B 2S8

Tel.: (506) 737-5050

Contact: Roland Lebel
Position: Dean of School of Forestry Sciences

Tel.: (506) 737-5048
Fax: (506) 739-5373

Head Office:

Université de Moncton
165 Herbert Boulevard
Edmundston, New Brunswick
E3V 2S8

Contact: Normand Carrier
Position: Vice President

Tel.: (506) 737-5044
Fax: (506) 739-5373

Mandate:

The purpose of the Université de Moncton's School of Forestry is to train professional foresters and provide them with a firm scientific foundation. The school also wishes to share with the community at large its knowledge and specialized equipment. Numerous research and consultation projects have been carried by professors and researchers in applied forestry technology.

Main Categories of Applied Research and Development Activities Offered:

Agriculture
Forestry
Geomatics
Physics

Expertise in Applied Research and Development:

- Remote sensing (Landsat)
- Analytical photogrammetry, forest inventory
- GIS (ARC information, CARIS) forest management
- Aerial photography, timber inventory
- Silviculture (regeneration and growth of mixed stands)
- Evaluation of maple stands
- Tree physiology (white spruce grown foliage)
- Growth and yield (white spruce plantation)
- Forest pathology (perch)
- Black spruce seed cones (development)

Equipment/Facilities Used:

- Photogrammetry: WiedBC2 Stereoscopic Plotter
- TA 1000 Wied Plotting Boards
- Kern PGM2 Transfer Apparatus
- UMK1318 Aerial Camera
- BC2, ATM51 PAT-MF, CIP, DAV02, and CPSIP Software, as well as 20 other remote sensing programs
- Computers: Prime 2755, Compaq 386, Sun IPC Space Station 4M20

Interactions with Industry:

Informal interaction
Contract from companies
Contracts to companies
Collaborative projects
Consulting services

Major Affiliations:

- Université de Moncton

Collaborative Research Projects:

- Effects of fertilization with leucaena foliage on growth and nutrient concentration of maize in southern Cameroon. - Canadian International Development Agency CIDA
- Evaluation of the condition of selected maple stands from northwestern New Brunswick - NB/Canada Cooperation Agreement on Forest Development
- Regeneration and growth of a natural mixed stand treated by the shelterwood method - Université de Moncton
- Effect of site and family on black spruce seed germination and cone morpho-metric measures - Fraser Inc./National Research Council
- Foliage biomass distribution in the crown of white spruce and its relation on tree physiology - Project "Challenge" 1991
- Growth and yield of a white spruce plantation subject to different thinning intensities - Irving
- Shearing red pine for Christmas tree production - Christmas Tree Growers Association

Composition of Employees:

Scientists and Engineers: 16
Technicians and Technical Specialists: 7

Services Offered in:

English
French

Shippagan Aquarium and Marine Centre

Shippagan Aquarium and Marine Centre
P.O. Box 1010
2e Avenue
Shippagan, New Brunswick
E0B 2P0

Contact: Clarence LeBreton
Position: Director

Tel.: (506) 336-4771
Fax: (506) 336-9646

Mandate:

The Shippagan Aquarium and Marine Centre is a public aquarium that includes a collection of fish and marine organisms of Eastern Canada. The Aquarium is also the regional aquaculture centre for the east coast of New Brunswick, and offers a range of services to New Brunswick's aquaculture industry. Through its various activities, the Aquarium also offers a number of analysis services related to the development of aquaculture.

Main Categories of Applied Research and Development Activities Offered:

Aquaculture
Fisheries

Expertise in Applied Research and Development:

- Technical support in the methods of fish and mollusk cultivation
- Prediction of the release of oyster and mussel spat
- Assessment of aquaculture sites
- Experiments in new techniques of breeding and cultivation of new species, in cooperation with the aquaculture industry
- Analysis of water quality for commercial fish farming sites
- Hatchery for mollusks (development of hatchery techniques)
- Monitoring of environmental quality
- Assistance in developing proposals for projects under the Canada/New Brunswick Agreement to cooperate in the development of fishery and aquaculture
- Sampling and assessment of site productivity
- Regional information office for applications of aquaculture leases and permits

Equipment/Facilities Used:

- Laboratory: water analysis equipment
- Wet lab: reeding pond for experiments on different fresh water and salt water species
- Library: literature on commercial breeding of fish in the salmon family, equipment, and companies specializing in aquaculture
- Pilot hatchery for cultivation of mollusks in the conch family

Interactions with Industry:

- Informal interactions
- Collaborative projects
- Consulting services
- Use of facilities

Major Affiliations:

- Provincial and federal government departments, and university and government libraries
- Canadian Association of Zoological Parks and Aquariums (CAZPA)
- National Museum of Natural Sciences
- Other Canadian and American aquariums and museums

Collaborative Research Projects:

- Monitoring bays in northeastern N.B. and pathologic examination of oysters from them - U de M
- Analysis of water to check the effectiveness of a water purification system - Peat Moss Research and Development Centre, Université de Moncton
- Study of the survival and winter growth of the European oyster in the waters of northeastern N.B - Université de Moncton, Shippagan campus
- Study of the biology of the snow crab, including moulting and reproduction - Canada Fisheries and Oceans
- Study of the effects of pollution or copper on the olfactory organ of rainbow trout, effect on ability to discriminate, effect on organ histology - Université de Moncton, Shippagan Campus and the neurosensory physiology laboratory of CNRS Université Claude Bernard, Lyon, France

Composition of Employees:

Technicians and Technical Specialists: 6
Guest Scientists: 1
Graduate Students: 2

Services Offered in:

French

Techmar Engineering Ltd.

Techmar Engineering Ltd.
190 Prospect Street
Fredericton, New Brunswick
E3B 2T8

Contact: John McGraw, P. Eng.
Position: President and Sr. Engineer

Tel.: (506) 459-6080
Fax: (506) 459-3400

Mandate:

Techmar Engineering deals with electrical power, controls and implementation engineering, as well as electrical services to industries and utilities including studies, system design and CAD drafting, material sourcing, specifications and procurement, cost estimating, contract administration, construction supervision and commissioning of the following types of equipment and systems.

Techmar focuses on generators, transformers, breakers, switchgear, instrumentation, PCL and computer based process controls, energy and demand monitoring and control, lighting, heating, product sourcing and application.

Main Categories of Applied Research and Development Activities Offered:

Electrical Power
Engineering (Instrumentation)
Controls

Expertise in Applied Research and Development:

- Process automation and monitoring
- Energy management
- Plant wide power distribution
- Power generation

Equipment/Facilities Used:

- Computer based drafting systems (CAD)
- Including 36" x 48" plotter using AUTOCAD Tm
- Technical and product library
- Engineering software packages
- Extensive up-to-date electrical instrumentation

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts to companies
- Contracts from government
- Consulting services
- Temporary transfer of staff to companies

Major Affiliations:

- Day to day staff and equipment sharing - A.W. Gunn Engineering

Composition of Employees:

Scientists and Engineers: 1
Technicians and Technical Specialists: 4

Services Offered in:

English
French

Thermopak Ltée/Ltd.

Thermopak Ltée/Ltd.
P.O. Box 996
Industrial Park
Shippagan, New Brunswick
E0B 2P0

Contact: Bernard Morin
Position: President

Tel.: (506) 336-8546
Fax: (506) 336-2586

Mandate:

Thermopak is involved in the processing of plastics by the technique called thermoforming. Thermopak also offers packaging, design, prototype production, and production mould manufacturing services. Thermopak can also provide printing on certain articles, as well as a complete assembly service. They specialize in the manufacture of plastic packaging materials.

Main Categories of Applied Research and Development Activities Offered:

Packaging

Expertise in Applied Research and Development:

- Packaging design
- Manufacture of packaging prototypes
- Manufacture of moulds required for production
- Moulding with epoxy resin
- Packaging services
- Technical assistance in selecting equipment required to package your products
- Design of plastic products
- Plastic prototype manufacture
- Printing on plastic products

Equipment/Facilities Used:

- Various equipment for prototype and production mould manufacture
- Various equipment for the manufacture of plastic products and plastic packaging materials

Interactions with Industry:

- Use of facilities

Major Affiliations:

- Access to other companies involved in packaging
- Access to companies manufacturing equipment for controlled atmosphere (MAP) and vacuum packaging
- Access to companies manufacturing plastic film

Composition of Employees:

Scientists and Engineers: 1

Services Offered in:

English
French

Thin Films and Solar Energy Research Group (U de M)

Thin Films and Solar Energy Research Group
Faculty of Science
Université de Moncton
Moncton, New Brunswick
E1A 3E9

Contact: Truong Vo-Van
Position: Director

Tel.: (506) 858-4447
Fax: (506) 858-4541

Mandate:

TFSERG works mainly on thin films, their use and optical instrumentation. In regards to their property, TFSERG is mostly interested in the electric and optical properties. It uses thin films for various types of optical coatings such as anti-reflective layers. Thin films are also used to build solar captors, electro-optical devices, and communable windows or "intelligence" for the management of energy in buildings. TFSERG also develops optical instruments for industrial implementation for research. New advanced optical materials are also adjusted by TFSERG.

Main Categories of Applied Research and Development Activities Offered:

Advanced Materials
Coatings
Electro Optics
Mathematics
Optical Instrumentation
Physics
Spectroscopy
Technology Management

Expertise in Applied Research and Development:

- Preparation of technology for thin films and for optical coatings
- Technique for optical measurement (thickness of films, constant of materials)
- Optical instrumentation (colometry, ellipsometry, reflectometry)
- Technology of the void
- Optical simulation study

Equipment/Facilities Used:

- FTIR spectometer in infrared
- Spectrometer (VIS)
- Empty chambers, thin layers system
- Crystallography x-rays

Interactions with Industry:

- Informal interactions
- Contracts to companies
- Contracts from government
- Consulting services

Composition of Employees:

Scientists and Engineers: 4
Technicians and Technical Specialists: 1
Graduate Students: 7

Services Offered in:

English
French

Tidal Industrial Development

Tidal Industrial Development
617 Gondola Point Road
Rothesay, New Brunswick
E2E 1L1

Contact: David Corkum, P. Eng.
Position: President

Tel.: (506) 847-2518
Fax: (506) 847-0459

Mandate:

Tidal Industrial Development provides consulting services primarily to industry in the Maritime Provinces. Tidal Industrial Development's mandate is to enhance the profitability of their clients through research and development, engineering, management and marketing projects. It has broad experience with many types of industry but has extensive experience with plastics, paper and printing firms.

Main Categories of Applied Research and Development Activities Offered:

Aquaculture
Engineering
Technology Management

Expertise in Applied Research and Development:

- Research and development of manufacturing processes and equipment

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts from government
- Collaborative projects
- Consulting services

Collaborative Research Projects:

- Development of off shore sea cage system for salmon farming - Oppdrett Service
- Development of floating wier design
- Development of efficient fume hoods - Poly Cello
- Development of bubble stabilizer - Poly Cello
- Development of various inventions - (boot dryer, mini water heater, and air scrubber)

Composition of Employees:

Scientists and Engineers: 1
Technicians and Technical Specialists: 1

Services Offered in:

English

Universal Systems Ltd.

Universal Systems Ltd.
270 Rookwood Avenue
Fredericton, New Brunswick
E3B 2M2

Contact: Rick Nyarady
Position: Marketing Manager

Tel.: (506) 458-8533
Fax: (506) 459-3849

Mandate:

Universal Systems Ltd. is a privately owned company which has developed a state-of-the-art digital mapping and Geographical Information System (GIS) entitled CARIS (Computer Aided Resourse Information System). The mandate of Universal Systems is to develop, market and support CARIS, continue research into improved techniques which will expand CARIS functionality to a wider, more knowledgeable client base, provide integrated solutions to clients interested in GIS technology, and provide consultant services in the field of spatial information systems. Universal Systems Ltd. and its representatives market and support CARIS worldwide.

Main Categories of Applied Research and Development Activities Offered:

Geomatics

Expertise in Applied Research and Development:

- Hardware and software integration
- Educational services in geomatics and relational databases
- Software development

Equipment/Facilities Used:

- Computer equipment consists of one VAX, one UNISYS, and two SUN servers plus a number of workstations including SUN, HP, CDC, DEC and 486 PCs
- Relational database systems; Ingres and Oracle

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies
- Temporary transfer of staff to laboratories
- Use of facilities
- Educational agreements

Major Affiliations:

- Educational agreements with the University of New Brunswick and Carleton University
- Technology exchange agreements with hardware and software vendors such as SUN, Hewlett-Packard, Digital Equipment of Canada, Ingres, SCO
- Strategic partnerships for international development and promotion. These include Precision Mapping (Houston, Texas), Alpha Information Systems (Winnipeg, MB), International Imaging Systems (Milpitas, CA), Krupp Atlas (Bremen, Germany) and Hollming (Rauma, Finland)
- Government sponsored research and development

Collaborative Research Projects:

- Electronic chart display and information systems - Canadian Hydrographic Service
- Integrated forest management system - Fletcher Challenge Canada
- Digital map generalization techniques - Canadian Hydrographic Service
- Integrate hydrographic survey control survey - Port of Singapore Authority
- Hydrographic post processing system - Krupp Atlas, Bremen, Germany

Composition of Employees:

Scientists and Engineers: 15
Technicians and Technical Specialists: 6
Guest Scientists: 4
Graduate Students: 5

Services Offered in:

English

Université de Moncton

Université de Moncton
Moncton, New Brunswick
E1A 3E9

Contact: Patrice Blanchard
Position: Director, CISTI

Tel.: (506) 858-4336
Fax: (506) 858-4459

Mandate:

With its three New Brunswick campuses, the Université de Moncton conducts post-secondary education in engineering sciences and humanities. This education is transferable to the benefit of the society.

Main Categories of Applied Research and Development Activities Offered:

Advanced Materials
Aquaculture
Biology
Chemistry
Computer Science
Electronics
Energy Conversion
Engineering: Civil, Industrial, Mechanical, Wind
Environmental Studies
Fisheries
Food Technology
Forestry
Mathematics
Physics
Quality Control and Assurance
Robotics
Statistics
Technology Management

Expertise in Applied Research and Development:

- Manufacturing Technology Centre - industrial engineering CAD/CAM technology, quality control, simulation
- Cadmi Microelectronics Inc. - prototype development, factory start-up plans, professional training, microelectronic design
- Thin Films and Solar Energy Research Group - optical and electrical properties analysis, switchable windows
- Food Research Centre - development of new products, microbiological, chemical, and sensorial impact analysis, food safety
- Environmental Science Research Centre
- Research Laboratory for Industry and the Environment - environmental monitoring, resource conservation, solid waste management
- Research Centre for Energy Conversion - heating, ventilation, cooling, heat-pump systems
- Biochemistry Group
- Biology Department
- Centre of Mathematics and Statistics
- Computer Science Department
- Engineering Department

Note: Additional information on each of these research centres can be obtained by referring to their individual profiles within this directory.

Equipment/Facilities Used:

- Automated blast engine with 2 x 1 meter wind tunnel producing speed up to 120 km/h
- Stereolithograph
- Computer VAX 6310
- CIM
- Spectrophotometer
- Autoclave
- Library
- Computer assisted information centre
- Computerized testing facilities for heat-pumps

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies
- Temporary transfer of staff to laboratories
- Use of facilities

Major Affiliations:

- University of New Brunswick (Cadmi/MTC)
- New Brunswick Community Colleges (MTC)
- Mount Allison University (MTC)
- New Brunswick Research and Productivity Council (MTC)
- Provincial and Federal Government Agencies
- Linkages with over 100 companies in and out of the province

Collaborative Research Projects:

- Heat pump design and analysis - CANAIR Ltd. and Water Furnace Ltd.
- Absorption Heat Pump - Energy Mines and Resources
- Certification of food - U.S. Drug and Food Administration
- Design of a New Vortex
- Environmental impact - Fraser Camp, NRC, and Government Agencies
- Composting - City of Moncton, and Provincial and Federal Governments
- Many small projects with industry, government, or other universities are performed at the Université de Moncton. More information can be obtained on these projects by contacting the CISTI 1-800-363-8336.

Composition of Employees:

Scientists and Engineers: 85
Technicians and Technical Specialists: 50
Graduate Students: 58

Services Offered in:

English
French

University of New Brunswick

University of New Brunswick
P.O. Box 4400
Fredericton, New Brunswick
E3B 5A3

Tel.: (506) 453-4666
Fax: (506) 453-4599

Contact: W.G. Paterson, P. Eng.
Position: Director, Contract R and D

Tel.: (506) 453-3558
Fax: (506) 453-3522

Mandate:

To conduct post-secondary and post-graduate education and training in the sciences, humanities and the professions. Through research to generate new knowledge, both fundamental and applied. To transfer out scientific and technological information for the economic benefit of society.

Main Categories of Applied Research and Development Activities Offered:

Aquaculture
Bio-technical
Biology
Chemistry
Computer Science
Electronics
Engineering: Civil, Electrical, Forest, Geological, Mechanical, and Surveying
Fisheries
Forestry
Geology
Mathematics
Nuclear Energy
Physics
Statistics
Technology Management
Telecommunications
Wood Science and Technology

Expertise in Applied Research and Development:

- Cadmi Microelectronics Inc. - CAD, simulation and manufacture of microelectronic circuits, very large scale integrated circuits (VLSI), training in microelectronics, fiberoptics, digital communications
- Manufacturing Technology Centre - applications for CAD/CAM technology, robotics, industrial process simulation, applications in medical radiation treatment
- Wood Science and Technology Centre - in-situ evaluation of wood integrity, testing of structural timber modules, problems in processing wood for added value
- Fire Science Centre - compartment fires, pressure liquefied gas safety, combustion processes and fuel characteristics
- Institute of Biomedical Engineering - bioelectric signal processing and myoelectric control of artificial limbs, biomechanics, biomedical instrumentation
- Computer Science - artificial intelligence, image processing, database systems
- Engineering - molecular sieves, fluidized bed combustion systems, energy conversion, ocean mapping, vibration, ground water dynamics, control systems, highway accident causal analyses, materials performance in pavement and structures, radiation systems and electromagnetic interference, very large scale integrated circuits, non-destructive testing, thermo dynamics/fluid mechanics, integrated spatial information systems, high precision measurements and global positioning systems

- Science - DNA fingerprinting, disease prevention for New Brunswick farmed salmon industry, numerical analyses, application of statistics, computer applications in geological mapping and mineral development, structural elucidation and synthesis of natural products with potential biological or medicinal application, paramagnetic molecular intermediates in chemical reactions, micro-chemical and micro-structural studies in geological material, molecular studies for higher power and more efficient lasers in the far-infrared region, and molecular dynamics using nuclear magnetic resonance techniques
- Forestry - regional and national forest resource management issues, computer applications in forest management and harvesting, and tree physiology and biotechnology
- Applied Statistics Centre - statistical consulting service

Note: Additional information on most of these research centres can be obtained by referring to their individual profiles within this directory.

Equipment/Facilities Used:

- Harriet Irving Library, Science and Forestry Library and Engineering Library
- Two transmission electron microscopes, Phillips EM 400 and an EM 200, Mary "O", 42' diesel-powered marine research vessel
- IBM 3090-180 VF with 64 MB memory, 16 channels, 32GB disk space running MVS/XA
- Joel JSM6400 digital scanning electron microscope plus Link Analytical eXL x-ray analysis system
- Level B Biohazard labs
- Pressure liquefied gas tank simulator
- Artificial intelligence laboratory
- CARIS digital mapping and GIS work station
- Proton and multi-nuclear magnetic resonance spectrometers (varian T60, CFT20 and XL200)
- Fully equipped anechoic chamber and antenna measurement facilities
- Geotechnical centrifuge - 100 kg. payload at 800 g. (1.8 metre radius)
- VLSI laboratory for design, simulation and testing of integrated circuits
- Regional forest nursery soils testing laboratory
- Laboratories equipped to carry out most modern biochemical and recombinant DNA research
- Biological signal acquisition system, biomedical instrumentation, computers and product development facilities

Interactions with Industry:

- Informal interactions
- Licensing agreements
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects
- Consulting services
- Temporary transfer of staff to companies
- Temporary transfer of staff to laboratories
- Use of facilities

Major Affiliations:

- University of New Brunswick, Saint John Campus
- Université de Moncton (Cadmi Microelectronics, Inc., and Manufacturing Technology Centre)
- Mount Allison University (MTC)
- New Brunswick Community Colleges (MTC)
- New Brunswick Research and Productivity Council
- N.B./P.E.I. Educational Computer Network
- CA*NET
- Hugh John Flemming Forestry Centre
- Hospitals
- Provincial and federal government departments, agencies and laboratories
- On-line searching of commercially available databases
- Insect Biotech Network
- Centre of Excellence Network for Molecular and Interfacial Dynamics
- Linkage to approximately 100 industrial, university and government organizations across North America
- Common library index with private firms and provincial government agencies
- Honourary Research Associates, Adjunct Professorships and Program Advisory Committees represent linkages to approximately 100 industrial, university and government organizations across North America

Collaborative Research Projects:

- Atlantic Masonry Research and Advisory Bureau
- Disease Prevention for N.B. Farmed Salmon Industry - Aquaculture Consortium
- CanLab Inspire
- Collision Investigation Group
- Construction Technology Centre (Atlantic)
- Energy Conversion Engineering Group
- Engineering and Mining Surveys Research Group
- Geodetic Research Laboratory
- Groundwater Studies Group
- New Brunswick Centre for Education Administration
- Ocean Mapping Group
- Resource Information Management Group
- Transportation Group
- Networks of Centre of Excellence (ISTC) - CEMAID
  - Insect Biotec
- Industrial Research Chairs - N.B. Power/NSERC Industrial Research Chair in Nuclear Engineering, D.C. Campbell Chair in Highway Pavement and Construction Research, Gillin Chair in Construction Engineering, Chair in Forest Tree Improvement, J. Herbert Smith/ACOA Chair in Technology Management & Entrepreneurship, Northern-Telecom/NSERC Women in Engineering Chair, Repap Eng. Corp./NSERC Chair in Pulp and Paper Engineering, Ocean Mapping Chair with ACOA, PetroCan and Universal Systems, and N.B. Power Chair in Power Plant Engineering

Composition of Employees:

Scientists and Engineers: 145
Technicians and Technical Specialists: 115
Guest Scientists: 5
Post Doctoral Fellows: 5
Adjunct Professors: 15
Graduate Students: 120

Services Offered in:

English

Washburn & Gillis Associates Ltd.

Washburn & Gillis Associates Ltd.
123 York Street
Fredericton, New Brunswick
E3B 3N6

Contact: Gregory F. Gillis
Position: President

Tel.: (506) 458-1000
Fax: (506) 450-0829

Mandate:

Washburn & Gillis Associates Ltd. provides engineering and environmental consulting services to public and private sector clients in the Maritime Provinces, elsewhere in Canada, the New England States, and overseas.

Main Categories of Applied Research and Development Activities Offered:

Agriculture
Aquaculture
Biology
Engineering
Fisheries
Geomatics
Hydrogeology

Expertise in Applied Research and Development:

- Environmental planning
- Environmental impact assessment
- Waste management
- Site assessment and remediation
- Water resources management
- Fisheries research & development
- Archaeological studies (as part of environmental planning)

Equipment/Facilities Used:

- Science & Technology Library

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts to companies
- Contracts from government
- Consulting services

Major Affiliations:

- Spider International Ltd.

Composition of Employees:

Scientists and Engineers: 18
Technicians and Technical Specialists: 12

Services Offered in:

English
French

Wood Science and Technology Centre (UNB)

Wood Science and Technology Centre (UNB)
Hugh John Flemming Forestry Centre
R. R. #10
Fredericton, New Brunswick
E3B 6H6

Contact: John White
Position: Manager

Tel.: (506) 453-4507
Fax: (506) 453-3574

Mandate:

The Wood Science and Technology Centre was established to aid companies involved in various sectors of the wood industry (including manufacturers and consumers) to update their industrial processes through appropriate applied research and development. WSTC provides one of Canada's best facilities for work related to wood structures, structural wood products, and non destructive evaluation techniques.

Main Categories of Applied Research and Development Activities Offered:

Engineering
Wood Science and Technology

Expertise in Applied Research and Development:

- Product development and testing
- Recommendations to designers on strategies of structural subsystems
- Non destructive testing of structural systems and components
- Detailed evaluation of biological deterioration
- Wood species identification
- Wood protection
- Training in non destructive evaluation techniques
- Biotechnology research and development

Equipment/Facilities Used:

- Library collection in areas of wood technology and wood engineering
- Equipment for non destructive evaluation
- 24" X 24" composite board press
- Equipment for full scale destructive testing of wood products
- Dry kiln

Interactions with Industry:

- Informal interactions
- Contracts from companies
- Contracts to companies
- Contracts from government
- Collaborative projects

Major Affiliations:

- Maritime Lumber Bureau (on 3 committees)
- Member of CSA 086 Wood
- Wood Products Manufacturers Association
- Laval University
- Forintek Canada Corporation

Collaborative Research Projects:

- All projects are proprietary and confidential

Composition of Employees:

Scientists and Engineers: 4
Technicians and Technical Specialists: 2
Guest Scientists: 4

Services Offered in:

English
French

ADDITIONAL SOURCES OF TECHNICAL INFORMATION AND FUNDING PROGRAMS

This section of the directory contains data on additional sources of technical information and programs supporting research and development activities. These agencies and their programs are designed to work with Canadian organizations to promote and assist in scientific and technological development, and to provide assistance to fund research and development in applied science and technology, industrial innovation, technology development, and technology application projects.

Note: Readers may obtain more detailed information from the programs and departments listed.

ATLANTIC CANADA OPPORTUNITIES AGENCY

The Atlantic Canada Opportunities Agency (ACOA) is a federal government development agency providing support to entrepreneurs in the Atlantic region.

Established in June 1987, its mandate is to sustain and foster the economic growth of Atlantic Canada, working together with small- and medium-sized businesses. ACOA manages the federal government's regional development programs, and plays a major role in federal government policies affecting the region.

ACOA's Four Programs

Action

Through the Action Program, businesses within eligible sectors can obtain financial assistance to carry out feasibility and market studies, design a new product or develop new technology, undertake capital investment, implement a marketing plan, and bid for or acquire procurement contracts. Assistance is available for innovation projects that are technically feasible, and have good prospects for commercialization.

The Co-operation Program

Through the Co-operation Program, strategic partnerships are formed with the private and academic sectors, as well as provincial and municipal governments in the Atlantic region. The Canada-New Brunswick Co-operation Agreements have components in each, to assist innovation projects in different ways. Some examples include: Fisheries and Aquaculture Development, Forest Development, Mineral Development, Agrifood Development, Economic Diversification, and Cultural Development.

The Advocacy Program

Lobbying in favour of market access for federal and provincial procurement business through Atlantic Canada House.

The Co-ordination Program

ACOA co-ordinates the economic renewal efforts of other federal departments in the region.

For more information on ACOA programs and services, please contact:

ACOA (New Brunswick Office)
570 Queen Street
P.O. Box 578
Fredericton, New Brunswick
E3B 5A6
Tel.:(506) 452-3184
1-800-561-4030
Fax:(506) 452-3285

ECONOMIC DEVELOPMENT & TOURISM

Assistance Programs

The overall responsibility of the Provincial Department of Economic Development and Tourism is the development of the manufacturing, processing and selected service sectors of the New Brunswick economy. To this end, a variety of programs and services are offered:

Financial Assistance to Industry

Loans, guarantees and equity for small, medium and large companies.

Venture Capital Support Program

Interest-free loans for venture capital investment.

Stock Savings Plan

Tax credit of up to 30% applied to investment in New Brunswick companies.

Market Development Program

Financial and advisory assistance for trade activities and the development of new markets.

Production and Technical Support Program

Financial and advisory assistance for production and product related activities.

Government Purchasing

Advice on provincial purchasing requirements and procedures, and assistance with registering to receive federal and provincial tender invitations.

Quality Assurance Program

Financial assistance for developing and implementing quality assurance standards (technical, educational, equipment, missions).

Business Improvement Program

1) Business Plans and Records

   - financial assistance to develop business plans; develop internal systems for accounting, inventory and production control; and purchase of appropriate software and related training

2) Small Business Internship

- financial assistance to hire new management, technical or quality control personnel

3) Management, Technical Support Training and Selected Services

- cost-shared financial assistance to conduct in-house education and training workshops

Self Start

Financial assistance for "first-time" entrepreneurs for the establishment of a new business.

Industrial Benefits Program

Advisory assistance on major capital projects.

Further information can be obtained by contacting the Economic Development and Tourism Provincial office, Industrial Innovation and Technology Department Sub-Agreement:

Economic Development
and Tourism

P.O. Box 6000
Fredericton, New Brunswick
E3B 5H1

Tel.: (506) 453-2489
Fax: (506) 453-5428

INDUSTRY SCIENCE AND TECHNOLOGY CANADA (ISTC) AND INTERNATIONAL TRADE

Industry Science and Technology Canada (ISTC) and International Trade has a broad mandate to improve the competitiveness of Canadian industry. In the area of small business, it has been given specific responsibility to:

- develop and implement national policies to foster entrepreneurship and the start-up, growth, and expansion of small businesses;
- promote investment in Canadian industry, science and technology.

The ISTC and International Trade regional offices work directly with Canadian companies to promote industrial, scientific and technological development. They help clients seize opportunities in a competitive international marketplace, providing services in the areas of business intelligence and information, technology and industrial development, and trade and market development.

ISTC and International Trade provides the following programs and services:

Advanced Industrial Materials

This program encourages, facilitates and supports cooperative activities among firms, research centres, universities and associations in the area of advanced industrial materials. It also promotes, organizes and builds non-profit, private sector national networks of scientists, industrialists and engineers.

Advanced Manufacturing Technology Application Program

The objective of this program is to enhance the international competitiveness of Canadian industry by stimulating the more effective use of advanced manufacturing technology.

Centres of Excellence

The objectives of these centres are to provide technology assistance so as to stimulate the production of leading-edge, fundamental, and long-term applied research; develop and retain world class Canadian scientists and engineers; integrate Canadian research and technology development efforts into national networks; and develop strong university-industry partnerships to accelerate the diffusion of advanced technological knowledge to industry.

Distcovery

This service is a tool for discovering and acquiring the new manufacturing opportunities emerging from the worldwide explosion in technological development.

Forest Industries R & D and Innovation Program

This program is designed to enhance the international competitiveness of forest products and related machinery industries. Shared cost assistance of up to 50 percent of eligible costs will be granted to alliances of companies, R & D organizations and universities for high-risk technology development and technology application projects.

InnovAction

InnovAction is the Government of Canada's strategy for science and technology (S&T). It focuses on the following five critical areas: strategic technologies, industrial innovation and technology diffusion, management of federal S&T resources, human resources for S&T, and public education and awareness of S&T. Specific initiatives include the following: a national microelectronics strategy, the Canadian Manufacturing Advanced Technology Exchange, a technology centres policy, Centres of Excellence based on industry-university collaboration, the Canada Scholarships Program, increased funding for university research granting councils, and a national effort to increase public awareness of the importance of S&T.

Microelectronics and Systems Development Program

This program provides financial assistance to Canadian companies undertaking the research and development of innovative, generic microelectronic components and of systems based on advanced microelectronics and information technologies.

Strategic Technologies Program

This program provides financial assistance in support of research and development and technology application alliances in information technology, biotechnology and advanced industrial materials. These industry-led alliances can also involve foreign firms, universities or research institutes that wish to pool resources on pre-competitive research and development, and on pre-commercial technology application projects.

Technology Inflow Program (TIP)

The Technology Inflow Program (TIP) promotes the acquisition of foreign technological innovation needed to develop new or improved Canadian products, processes, or services. For more information, please contact:

Technology Inflow Program
Manager
Science and Technology Division
External Affairs and International
Trade Canada

125 Sussex Drive
Ottawa, Ontario
K1A 0G2

Tel.: (613) 996-0971
Fax: (613) 952-3904

Technology Outreach Program

This program provides financial support to specialized technology centres for national activities and services that accelerate the acquisition, development and diffusion of technology and critical management skills in industry. Special emphasis is placed on small and medium-sized enterprises.

University Research Matching Policy

ISTC coordinates, in conjunction with the three federal research granting councils, the evaluation of the Matching Policy for university research, and the development of policies and programs to stimulate university-industry research collaboration. The Matching Policy is part of the granting councils' five-year financial plans and provides them with funds to match private sector contributions to university research.

For more information on ISTC programs, please contact:

ISTC (New Brunswick)
12th floor, Assumption Place

770 Main Street
P.O. Box 1210
Moncton, New Brunswick
E1C 8P9

Tel.: (506) 857-ISTC
Fax: (506) 851-6429

NATIONAL RESEARCH COUNCIL CANADA

The National Research Council (NRC) works directly with Canadian firms of all sizes to develop and apply technology for economic benefit. As the Government's largest scientific and technical research organization, the council supervises the Industrial Research Assistance Program (IRAP), a national network for the diffusion and transfer of technology. NRC also supports the Canada Institute for Scientific and Technical Information.

Industrial Research Assistance Program - IRAP

The purpose of this program is to help Canadian firms enhance their technical expertise in manufacturing, resource, construction and service industries. It assists by providing vital linkages between companies and sources of appropriate technology and expertise.

The following projects and services are available under IRAP.

Field Advisory Service - IRAP-C

This service will assist a firm to: define its technical needs; identify technical opportunities; obtain technical information and assistance; solve product and production problems; access or acquire technology and expertise from Canadian or foreign sources; access financial assistance programs and refer the firm to other assistance.

Projects Employing Students - IRAP-H

Some short-term projects for product or process development can utilize the skills of a university or college level engineering or science student dedicated to the task. IRAP covers most of the student's salary and the services of Project Technical Counsellors as required. These counsellors monitor the technical progress of the project and provide technical guidance where necessary.

Short-Term Projects - IRAP-L

A firm may need specialized help from outside facilities for projects involving product testing, product or process design or development, or engineering feasibility studies. IRAP can contribute up to $5,000 (or up to 65 percent, whichever is lower) for such projects provided they are less than $12,000 in total costs.

Medium-Term Projects -IRAP-M

IRAP can contribute up to $100,000 towards the salaries of technical personnel, from the firm or subcontracted, for specific projects to develop new or improved products and processes.

Long-Term Projects - IRAP-R

For a project with high risk but high potential benefits, IRAP can contribute funds to help a firm team up with experts in Canadian federal, provincial or university laboratories or, with international resources to pursue the development of promising new technologies for commercial purposes.

Canada Institute for Scientific and Technical Information - CISTI

The objective of this institute is to promote and provide for the use of scientific and technical information. Anyone in Canada with a need for specialized scientific, technological or health sciences information can benefit from CISTI services.

For more information on NRC programs and services, please contact:

National Research Council
(New Brunswick office)
921 College Hill Road
P.O. Box 20000
Fredericton, New Brunswick
E3B 6C2
Tel.: (506) 452-3831
Fax: (506) 452-3827

NATURAL SCIENCES AND ENGINEERING RESEARCH COUNCIL

NSERC Research Partnerships

The Natural Sciences and Engineering Research Council (NSERC) promotes collaboration between universities, Canadian companies and research-oriented federal government departments.

Cooperative Research and Development

The NSERC will provide grants to universities to conduct a wide range of R&D projects in collaboration with your company. Projects can range from a short-term endeavour to bring an advance in a university lab to commercialization to longer-term research in a technology of direct interest to your company.

The following are examples of the shared-cost ventures NSERC supports under this program:

Cooperative Research and Development Programs

Grants can be provided for projects ranging from short-term endeavors to commercialize a university innovation, to long-term university research in a technology relevant to Canadian companies. Industrial contribution and involvement are required.

Shared Equipment and Facilities

Contributions can be made towards joint acquisition or upgrading of research equipment for use by industrial and university researchers.

Industrial Research Chairs

This is a major initiative that allows universities to build strength in scientific and technical fields important to industry. Grants pay for salaries of research professors of international calibre and for equipment and research costs.

NSERC Visiting Fellowships

Salary support is obtainable for senior researchers either in industry or universities who take leave in the other sector. The objectives are to enhance the industrial orientation of university laboratories and to stimulate productive interchange between sectors.

Workshops and Seminars

Contributions can be made towards the organization of workshops, seminars and exhibits involving participants from both sectors. Subjects may range from a technology of interest to a company, to an in-depth analysis by university researchers of a particular industrial problem.

Industrial Research Fellowships

Provision of up to three years salary support can be available for a company adding a recent doctoral graduate to its research and development team.

Industrial Undergraduate Student Research Awards

Salary support is available to qualified undergraduate students wishing to obtain industrial research experience.

For more information on NSERC programs and services, please contact:

Research Partnerships Program
Natural Sciences and Engineering
Research Council
200 Kent Street
Ottawa, Ontario
K1A 1H5
Tel.: (613) 996-1898
Fax: (613) 992-5337

REGIONAL ECONOMIC DEVELOPMENT COMMISSIONS

Capital Region Development Commission Inc.	61 Carleton Street Fredericton, New Brunswick E3B 3T2	Tel.: (506) 458-8981 Fax: (506) 452-7621
Carleton Regional Development Commission Inc.	P.O. Box 1929 666 Main Street Woodstock, New Brunswick E0J 2B0	Tel.: (506) 328-9983 Fax: (506) 328-9985
Chaleur Regional Development Commission Inc.	755 Foley Avenue Bathurst, New Brunswick E2A 4B3	Tel.: (506) 546-9969 Fax: (506) 548-8271
Dieppe Industrial Park	1067 Champlain Street Dieppe, New Brunswick E1A 1P9	Tel.: (506) 857-0735 Fax: (506) 857-1750
Economic Expansion Commission of the Peninsula Inc.	P.O. Box 940 439 Moulin Street Tracadie, New Brunswick E0C 2B0	Tel.: (506) 395-2261 Fax: (506) 395-5672
Fundy Region Development Commission Inc.	57 King Street Saint John, New Brunswick E2L 1G5	Tel.: (506) 658-2918 Fax: (506) 658-2861
Grand Falls Region Development Commission Inc.	P.O. Box 2754 139 Court Street, Floor Grand Falls, New Brunswick E0J 1M0	Tel.: (506) 473-4994 Fax: (506) 473-6426
Greater Moncton Economic Commission Inc.	910 Main Street, Suite 101 Moncton, New Brunswick E1C 1G6	Tel.: (506) 858-9550 Fax: (506) 859-7791
Kent Economic Commission Inc.	P.O. Box 490 59 Irving Boulevard Bouctouche, New Brunswick E0A 1G0	Tel.: (506) 743-2462 Fax: (506) 743-8410
Miramichi Region Development Commission	295 Pleasant Street Suite 201, Stothart Building Newcastle, New Brunswick E1V 1Y7	Tel.: (506) 622-7890 Fax: (506) 622-2160
Moncton Industrial Development Ltd.	910 Main Street Moncton, New Brunswick E1C 1G6	Tel.: (506) 857-0700 Fax: (506) 859-7206

Northwest Industrial Commission Inc.	P.O. Box 490 121 Church Street Suite 407 Carrefour Assomption Edmundston, New Brunswick E3V 1J9	Tel.: (506) 735-4769 Fax: (506) 739-7486
Restigouche Industrial Commission Inc.	P.O. Box 825 207 Roseberry Street Campbellton, New Brunswick E3N 3H3	Tel.: (506) 753-5088 (506) 753-5443 Fax: (506) 753-5761
Southeast Economic Commission Inc.	P.O. Box 578 144 Main Street E.H. Belliveau Shédiac, New Brunswick E0A 3G0	Tel.: (506) 532-6601 (506) 532-6602 Fax: (506) 532-6878

REVENUE CANADA

R & D Tax Incentives

Section 37 of the Income Tax Act allows taxpayers to immediately deduct the full cost of all qualifying current and capital expenditures for scientific research and experimental development (R&D) conducted in Canada.

For more information, please contact:

Revenue Canada
65 Canterberry Street
Saint John, New Brunswick
E2L 4H9
Tel.: (506) 636-4689

THE CANADIAN MANUFACTURING ADVANCED TECHNOLOGY EXCHANGE (CAN-MATE)

Can-Mate is a program established by contract between the Canadian Manufacturer's Association and the National Research Council, and subsidized by the Ministry of State for Science and Technology. Its principal objective is to help manufacturing and processing industries to adopt new technologies, either to improve the manufacturing process or to develop new higher quality products. The New Brunswick Division is the third largest in Canada.

For more information please contact:

Can-Mate
236 George Street
Suite 312
Moncton, New Brunswick
E1C 1W1
Tel.: (506) 857-3056
Fax: (506) 857-3059